

Liste of Publications

- [1] S. D'Auria, P. Neuteboom, R. Pinalli, E. Dalcanale, J. Vachon, Polyethylene ionomers as thermally reversible and aging resilient adhesives, *Eur. Polym. J.* 211 (2024). <https://doi.org/10.1016/j.eurpolymj.2024.113000>.
- [2] M. Orlandini, A. Pedrini, D. Marchetti, Y. Li, G. Aragay, E. Dalcanale, P. Ballester, R. Pinalli, Binding of Acetylated Lysine by Using a Water Soluble Aryl Extended Calix[4]pyrrole, *Chem. - A Eur. J.* 30 (2024). <https://doi.org/10.1002/chem.202303715>.
- [3] E. Contini, V.A. Dini, A. Rozzi, D. Genovese, N. Zaccheroni, A. Pedrini, E. Dalcanale, R. Pinalli, C. Gualandi, Comparative Mechanochromic Performance of Perylene Diimide-Doped Polyurethanes: Blending vs Bonding, *ACS Appl. Polym. Mater.* 6 (2024) 669-680. <https://doi.org/10.1021/acsapm.3c02284>.
- [4] F. Bertocchi, D. Marchetti, S. Doria, M. di Donato, C. Sissa, M. Gemmi, E. Dalcanale, R. Pinalli, A. Lapini, Tuning the Optical Properties Through Hydrogen Bond-assisted H-aggregate Formation: The ODIN Case, *Chem. - A Eur. J.* 30 (2024). <https://doi.org/10.1002/chem.202302619>.
- [5] S. D'Auria, A.M. Pourrahimi, A. Favero, P. Neuteboom, X. Xu, S. Haraguchi, M. Bek, R. Kádár, E. Dalcanale, R. Pinalli, C. Müller, J. Vachon, Polyethylene Based Ionomers as High Voltage Insulation Materials, *Adv. Funct. Mater.* 33 (2023). <https://doi.org/10.1002/adfm.202301878>.
- [6] S. D'Auria, A. Pedrini, I. Ferraboschi, J. Vachon, C. Sissa, R. Pinalli, E. Dalcanale, Two-photon microscopy as a visual tool for polymer compatibilization monitoring: the PE-EVOH case, *Soft Matter* 19 (2023) 1900-1906. <https://doi.org/10.1039/d2sm01577c>.
- [7] F. Portone, M. Amorini, M. Montanari, R. Pinalli, A. Pedrini, R. Verucchi, R. Brighenti, E. Dalcanale, Molecular Auxetic Polymer of Intrinsic Microporosity via Conformational Switching of a Cavitand Crosslinker, *Adv. Funct. Mater.* 33 (2023). <https://doi.org/10.1002/adfm.202307605>.
- [8] G. Soavi, F. Portone, D. Battezzato, C. Paravidino, R. Arrigo, A. Pedrini, R. Pinalli, A. Fina, E. Dalcanale, Phenoxy resin-based vinylogous urethane covalent adaptable networks, *React. Funct. Polym.* 191 (2023). <https://doi.org/10.1016/j.reactfunctpolym.2023.105681>.
- [9] N. Riboni, M. Amorini, F. Bianchi, A. Pedrini, R. Pinalli, E. Dalcanale, M. Careri, Ultra-sensitive solid-phase Microextraction-Gas Chromatography-Mass spectrometry determination of polycyclic aromatic hydrocarbons in snow samples using a deep cavity BenzoQxCavitand, *Chemosphere* 303 (2022). <https://doi.org/10.1016/j.chemosphere.2022.135144>.
- [10] A. Rozzi, A. Pedrini, R. Pinalli, C. Massera, I. Elmi, S. Zampolli, E. Dalcanale, Tuning the conformational flexibility of quinoxaline cavitands for complexation at the gas-solid interface, *Chem. Commun.* 58 (2022) 7554-7557. <https://doi.org/10.1039/d2cc02710k>.
- [11] G. Soavi, A. Pedrini, A. Devi Das, F. Terenzi, R. Pinalli, N. Hickey, B. Medagli, S. Geremia, E. Dalcanale, Encapsulation of Trimethine Cyanine in Cucurbit[8]uril: Solution versus Solid-State Inclusion Behavior, *Chem. - A Eur. J.* 28 (2022). <https://doi.org/10.1002/chem.202200185>.
- [12] A. Rozzi, A. Pedrini, R. Pinalli, E. Cozzani, I. Elmi, S. Zampolli, E. Dalcanale, Cavitand Decorated Silica as a Selective Preconcentrator for BTEX Sensing in Air, *Nanomaterials* 12 (2022). <https://doi.org/10.3390/nano12132204>.
- [13] D. Marchetti, F. Portone, F. Mezzadri, E. Dalcanale, M. Gemmi, A. Pedrini, C. Massera, Selective and Reversible Solvent Uptake in Tetra-4-(4-pyridyl)phenylmethane-based Supramolecular Organic Frameworks, *Chem. - A Eur. J.* 28 (2022). <https://doi.org/10.1002/chem.202202977>.
- [14] M. Amorini, N. Riboni, L. Pesenti, V.A. Dini, A. Pedrini, C. Massera, C. Gualandi, F. Bianchi, R. Pinalli, E. Dalcanale, Reusable Cavitand-Based Electrospun Membranes for the Removal of Polycyclic Aromatic Hydrocarbons from Water, *Small* 18 (2022). <https://doi.org/10.1002/smll.202104946>.
- [15] A. Cesari, D. Rosa-Gastaldo, A. Pedrini, F. Rastrelli, E. Dalcanale, R. Pinalli, F. Mancin, Selective NMR detection of N-methylated amines using cavitand-decorated silica nanoparticles as receptors, *Chem. Commun.* 58 (2022) 10861-10864. <https://doi.org/10.1039/d2cc04199e>.
- [16] F. Guagnini, A. Pedrini, E. Dalcanale, C. Massera, Multidentate, V-Shaped Pyridine Building Blocks as Tectons for Crystal Engineering, *Chem. - A Eur. J.* 27 (2021) 4660-4669. <https://doi.org/10.1002/chem.202004918>.
- [17] A. Pedrini, A. Devi Das, R. Pinalli, N. Hickey, S. Geremia, E. Dalcanale, The Role of Chain Length in Cucurbit[8]uril Complexation of Methyl Alkyl Viologens, *European J. Org. Chem.* 2021 (2021) 1547-1552. <https://doi.org/10.1002/ejoc.202100014>.

- [18] D. Zuccaccia, R. Pinalli, R. De Zorzi, M. Semeraro, A. Credi, C. Zuccaccia, A. MacChioni, S. Geremia, E. Dalcanale, Hierarchical self-assembly and controlled disassembly of a cavitand-based host-guest supramolecular polymer, *Polym. Chem.* 12 (2021) 389–401. <https://doi.org/10.1039/d0py01483d>.
- [19] D. Marchetti, F. Guagnini, A.E. Lanza, A. Pedrini, L. Righi, E. Dalcanale, M. Gemmi, C. Massera, Combined Approach of Mechanochemistry and Electron Crystallography for the Discovery of 1D and 2D Coordination Polymers, *Cryst. Growth Des.* 21 (2021) 6660–6664. <https://doi.org/10.1021/acs.cgd.1c01058>.
- [20] J. Chen, B.L. Hickey, L. Wang, J. Lee, A.D. Gill, A. Favero, R. Pinalli, E. Dalcanale, R.J. Hooley, W. Zhong, Selective discrimination and classification of G-quadruplex structures with a host-guest sensing array, *Nat. Chem.* 13 (2021) 488–495. <https://doi.org/10.1038/s41557-021-00647-9>.
- [21] N. Hickey, B. Medagli, A. Pedrini, R. Pinalli, E. Dalcanale, S. Geremia, Methyl Hexadecyl Viologen Inclusion in Cucurbit[8]uril: Coexistence of Three Host-Guest Complexes with Different Stoichiometry in a Highly Hydrated Crystal, *Cryst. Growth Des.* 21 (2021) 3650–3655. <https://doi.org/10.1021/acs.cgd.1c00463>.
- [22] A. Favero, A. Rozzi, C. Massera, A. Pedrini, R. Pinalli, E. Dalcanale, Synthesis of quinoxaline cavitand baskets, *Supramol. Chem.* 33 (2021) 97–106. <https://doi.org/10.1080/10610278.2021.1917768>.
- [23] A.D. Das, G. Mannoni, A.E. Früh, D. Orsi, R. Pinalli, E. Dalcanale, Damage-reporting carbon fiber epoxy composites, *ACS Appl. Polym. Mater.* 1 (2020) 2990. <https://doi.org/10.1021/acscpm.9b00694>.
- [24] M. Torelli, F. Terenziani, A. Pedrini, F. Guagnini, I. Domenichelli, C. Massera, E. Dalcanale, Mechanically-Driven Vase-Kite Conformational Switch in Cavitand Cross-Linked Polyurethanes, *ChemistryOpen* 9 (2020) 261–268. <https://doi.org/10.1002/open.201900345>.
- [25] A. Sirico, P. Bernardi, B. Belletti, A. Malcevski, E. Dalcanale, I. Domenichelli, P. Fornoni, E. Moretti, Mechanical characterization of cement-based materials containing biochar from gasification, *Constr. Build. Mater.* 246 (2020). <https://doi.org/10.1016/j.conbuildmat.2020.118490>.
- [26] A. Zych, R. Pinalli, M. Soliman, J. Vachon, E. Dalcanale, Polyethylene vitrimers via silyl ether exchange reaction, *Polymer (Guildf)*. 199 (2020). <https://doi.org/10.1016/j.polymer.2020.122567>.
- [27] J. Tellers, J. Vachon, M. Soliman, E. Dalcanale, R. Pinalli, Velcra functionalized polyethylene, *Molecules* 24 (2019). <https://doi.org/10.3390/molecules24050902>.
- [28] A. Zych, A. Verdelli, M. Soliman, R. Pinalli, J. Vachon, E. Dalcanale, Physically cross-linked polyethylene: Via reactive extrusion, *Polym. Chem.* 10 (2019) 1741–1750. <https://doi.org/10.1039/c9py00168a>.
- [29] J. Tellers, R. Pinalli, M. Soliman, J. Vachon, E. Dalcanale, Reprocessable vinylogous urethane cross-linked polyethylene: Via reactive extrusion, *Polym. Chem.* 10 (2019) 5534–5542. <https://doi.org/10.1039/c9py01194c>.
- [30] A. Zych, A. Verdelli, M. Soliman, R. Pinalli, A. Pedrini, J. Vachon, E. Dalcanale, Strain-reporting pyrene-grafted polyethylene, *Eur. Polym. J.* 111 (2019) 69–73. <https://doi.org/10.1016/j.eurpolymj.2018.12.016>.
- [31] F. Guagnini, A. Pedrini, T.M. Swager, C. Massera, E. Dalcanale, Solvent-responsive cavitand lanthanum complex, *Dalt. Trans.* 48 (2019) 13732–13739. <https://doi.org/10.1039/c9dt03199e>.
- [32] S. Liedtke, S. Zampolli, I. Elmi, L. Masini, T. Barboza, E. Dalcanale, R. Pinalli, M. Pähler, C. Drees, W. Vautz, Hyphenation of a MEMS based pre-concentrator and GC-IMS, *Talanta* 191 (2019) 141–148. <https://doi.org/10.1016/j.talanta.2018.07.057>.
- [33] R. Pinalli, J.W. Trzciński, E. Dalcanale, C. Massera, A new, deep quinoxaline-based cavitand receptor for the complexation of benzene, *Acta Crystallogr. Sect. E Crystallogr. Commun.* 75 (2019) 103–108. <https://doi.org/10.1107/S2056989018017784>.
- [34] W.J. Ong, F. Bertani, E. Dalcanale, T.M. Swager, Erratum: Redox Switchable Thianthrene Cavitands (Synthesis (Germany) DOI: 10.1055/s-0036-1588659), *Synth.* 50 (2018) 4697. <https://doi.org/10.1055/s-0037-1610833>.
- [35] A. Aprile, G. Palermo, A. De Luca, R. Pinalli, E. Dalcanale, P. Pagliusi, Assessment of EtQxBox complexation in solution by steady-state and time-resolved fluorescence spectroscopy, *RSC Adv.* 8 (2018) 16314–16318. <https://doi.org/10.1039/c8ra02875c>.
- [36] R. Brighenti, F. Artoni, F. Vernerey, M. Torelli, A. Pedrini, I. Domenichelli, E. Dalcanale, Mechanics of responsive polymers via conformationally switchable molecules, *J. Mech. Phys. Solids* 113 (2018) 65–81. <https://doi.org/10.1016/j.jmps.2018.01.012>.
- [37] A. Pedrini, L. Poggini, C. Tudisco, M. Torelli, A.E. Giuffrida, F. Bertani, I. Cimatti, E. Otero, P. Ohresser, P. Sainctavit, M. Suman, G.G. Condorelli, M. Mannini, E. Dalcanale, Self-Assembly of TbPc2 Single-Molecule Magnets on Surface through Multiple Hydrogen Bonding, *Small* 14 (2018). <https://doi.org/10.1002/sml.201702572>.
- [38] J. Tellers, S. Canossa, R. Pinalli, M. Soliman, J. Vachon, E. Dalcanale, Dynamic Cross-Linking of Polyethylene via Sextuple Hydrogen Bonding Array, *Macromolecules* 51 (2018) 7680–7691. <https://doi.org/10.1021/acs.macromol.8b01715>.
- [39] F. Maffei, G. Brancatelli, T. Barboza, E. Dalcanale, S. Geremia, R. Pinalli, Inherently chiral phosphonate cavitands as enantioselective receptors for mono-methylated L-amino acids, *Supramol. Chem.* 30 (2018)

600-609. <https://doi.org/10.1080/10610278.2017.1417991>.

- [40] M. Torelli, I. Domenichelli, A. Pedrini, F. Guagnini, R. Pinalli, F. Terenziani, F. Artoni, R. Brighenti, E. Dalcanale, PH-Driven Conformational Switching of Quinoxaline Cavitands in Polymer Matrices, *Synlett* 29 (2018) 2503-2508. <https://doi.org/10.1055/s-0037-1610219>.
- [41] A. Pedrini, F. Bertani, E. Dalcanale, Fluorinated tetraphosphonate cavitands, *Molecules* 23 (2018). <https://doi.org/10.3390/molecules23102670>.
- [42] F. Guagnini, P.M. Antonik, M.L. Rennie, P. O'Byrne, A.R. Khan, R. Pinalli, E. Dalcanale, P.B. Crowley, Cucurbit[7]uril-Dimethyllysine Recognition in a Model Protein, *Angew. Chemie - Int. Ed.* 57 (2018) 7126-7130. <https://doi.org/10.1002/anie.201803232>.
- [43] R. Pinalli, E. Dalcanale, K. Misztal, R. Lucentini, F. Ugozzoli, C. Massera, Metal ion complexation by tetraphosphonate cavitands: The influence of the ionic radius, *Inorganica Chim. Acta* 470 (2018) 250-253. <https://doi.org/10.1016/j.ica.2017.05.065>.
- [44] G. Brancatelli, E. Dalcanale, R. Pinalli, S. Geremia, Probing the structural determinants of amino acid recognition: X-ray studies of crystalline ditopic host-guest complexes of the positively charged amino acids, Arg, Lys, and His with a cavitand molecule, *Molecules* 23 (2018). <https://doi.org/10.3390/molecules23123368>.
- [45] R. Pinalli, A. Pedrini, E. Dalcanale, Biochemical sensing with macrocyclic receptors, *Chem. Soc. Rev.* 47 (2018) 7006-7026. <https://doi.org/10.1039/c8cs00271a>.
- [46] M. Giannetto, A. Pedrini, S. Fortunati, D. Brando, S. Milano, C. Massera, R. Tatti, R. Verucchi, M. Careri, E. Dalcanale, R. Pinalli, Sensing of halogenated aromatic hydrocarbons in water with a cavitand coated piezoelectric device, *Sensors Actuators, B Chem.* 276 (2018) 340-348. <https://doi.org/10.1016/j.snb.2018.08.111>.
- [47] C. Tudisco, A. Motta, T. Barboza, C. Massera, A.E. Giuffrida, R. Pinalli, E. Dalcanale, G.G. Condorelli, Cavitand-Decorated Silicon Columnar Nanostructures for the Surface Recognition of Volatile Nitroaromatic Compounds, *ACS Omega* 3 (2018) 9172-9181. <https://doi.org/10.1021/acsomega.8b01018>.
- [48] R. Pinalli, A. Pedrini, E. Dalcanale, Environmental Gas Sensing with Cavitands, *Chem. - A Eur. J.* 24 (2018) 1010-1019. <https://doi.org/10.1002/chem.201703630>.
- [49] G. Brancatelli, C. Nicosia, T. Barboza, L. Guy, J.-P. Dutasta, R. De Zorzi, N. Demitri, E. Dalcanale, S. Geremia, R. Pinalli, Enantiospecific recognition of 2-butanol by an inherently chiral cavitand in the solid state, *CrystEngComm* 19 (2017) 3355-3361. <https://doi.org/10.1039/c7ce00557a>.
- [50] N. Bontempi, E. Biavardi, D. Bordiga, G. Candiani, I. Alessandri, P. Bergese, E. Dalcanale, Probing lysine mono-methylation in histone H3 tail peptides with an abiotic receptor coupled to a non-plasmonic resonator, *Nanoscale* 9 (2017) 8639-8646. <https://doi.org/10.1039/c7nr02491f>.
- [51] A.E. Früh, F. Artoni, R. Brighenti, E. Dalcanale, Strain Field Self-Diagnostic Poly(dimethylsiloxane) Elastomers, *Chem. Mater.* 29 (2017) 7450-7457. <https://doi.org/10.1021/acs.chemmater.7b02438>.
- [52] F. Bianchi, N. Riboni, P. Carbognani, L. Gnetti, E. Dalcanale, L. Ampollini, M. Careri, Solid-phase microextraction coupled to gas chromatography-mass spectrometry followed by multivariate data analysis for the identification of volatile organic compounds as possible biomarkers in lung cancer tissues, *J. Pharm. Biomed. Anal.* 146 (2017) 329-333. <https://doi.org/10.1016/j.jpba.2017.08.049>.
- [53] G. Cucinotta, L. Poggini, A. Pedrini, F. Bertani, N. Cristiani, M. Torelli, P. Graziosi, I. Cimatti, B. Cortigiani, E. Otero, P. Ohresser, P. Saintavit, A. Dediu, E. Dalcanale, R. Sessoli, M. Mannini, Tuning of a Vertical Spin Valve with a Monolayer of Single Molecule Magnets, *Adv. Funct. Mater.* 27 (2017). <https://doi.org/10.1002/adfm.201703600>.
- [54] J.W. Trzciński, R. Pinalli, N. Riboni, A. Pedrini, F. Bianchi, S. Zampolli, I. Elmi, C. Massera, F. Ugozzoli, E. Dalcanale, In Search of the Ultimate Benzene Sensor: The EtQxBox Solution, *ACS Sensors* 2 (2017) 590-598. <https://doi.org/10.1021/acssensors.7b00110>.
- [55] W.J. Ong, F. Bertani, E. Dalcanale, T.M. Swager, Redox Switchable Thianthrene Cavitands, *Synth.* 49 (2017) 358-364. <https://doi.org/10.1055/s-0036-1588659>.
- [56] A. Pedrini, M. Perfetti, M. Mannini, E. Dalcanale, Formation of TbPc2 Single-Molecule Magnets' Covalent 1D Structures via Acyclic Diene Metathesis, *ACS Omega* 2 (2017) 517-521. <https://doi.org/10.1021/acsomega.6b00546>.
- [57] R. Pinalli, G. Brancatelli, A. Pedrini, D. Menozzi, D. Hernández, P. Ballester, S. Geremia, E. Dalcanale, The Origin of Selectivity in the Complexation of N-Methyl Amino Acids by Tetraphosphonate Cavitands, *J. Am. Chem. Soc.* 138 (2016) 8569-8580. <https://doi.org/10.1021/jacs.6b04372>.
- [58] S. Neri, R. Pinalli, E. Dalcanale, L.J. Prins, Orthogonal Sensing of Small Molecules Using a Modular Nanoparticle-Based Assay, *ChemNanoMat* 2 (2016) 489-493. <https://doi.org/10.1002/cnma.201600075>.
- [59] C. Tudisco, M.E. Fragalà, A.E. Giuffrida, F. Bertani, R. Pinalli, E. Dalcanale, G. Compagnini, G.G. Condorelli, Hierarchical Route for the Fabrication of Cavitand-Modified Nanostructured ZnO Fibers for Volatile Organic Compound Detection, *J. Phys. Chem. C* 120 (2016) 12611-12617.

<https://doi.org/10.1021/acs.jpcc.6b03502>.

- [60] F. Bertani, N. Riboni, F. Bianchi, G. Brancatelli, E.S. Sterner, R. Pinalli, S. Geremia, T.M. Swager, E. Dalcanale, Triptycene-Roofed Quinoxaline Cavitands for the Supramolecular Detection of BTEX in Air, *Chem. - A Eur. J.* 22 (2016) 3312-3319. <https://doi.org/10.1002/chem.201504229>.
- [61] I. Alessandri, E. Biavardi, A. Gianoncelli, P. Bergese, E. Dalcanale, Cavitands Endow All-Dielectric Beads with Selectivity for Plasmon-Free Enhanced Raman Detection of Ne-Methylated Lysine, *ACS Appl. Mater. Interfaces* 8 (2016) 14944-14951. <https://doi.org/10.1021/acsami.5b08190>.
- [62] A. Aprile, F. Ciuchi, R. Pinalli, E. Dalcanale, P. Pagliusi, Probing Molecular Recognition at the Solid-Gas Interface by Sum-Frequency Vibrational Spectroscopy, *J. Phys. Chem. Lett.* 7 (2016) 3022-3026. <https://doi.org/10.1021/acs.jpcllett.6b01300>.
- [63] D. Orsi, A.E. Früh, M. Giannetto, L. Cristofolini, E. Dalcanale, Electrochemical decompatibilisation leads to morphology rearrangements in host-guest polymer blend films, *Soft Matter* 12 (2016) 5353-5358. <https://doi.org/10.1039/c6sm00808a>.
- [64] N. Riboni, J.W. Trzcinski, F. Bianchi, C. Massera, R. Pinalli, L. Sidisky, E. Dalcanale, M. Careri, Conformationally blocked quinoxaline cavitand as solid-phase microextraction coating for the selective detection of BTEX in air, *Anal. Chim. Acta* 905 (2016) 79-84. <https://doi.org/10.1016/j.aca.2015.12.005>.
- [65] R. Pinalli, E. Dalcanale, F. Ugozzoli, C. Massera, Resorcinarene-based cavitands as building blocks for crystal engineering, *CrystEngComm* 18 (2016) 5788-5802. <https://doi.org/10.1039/c6ce01010e>.
- [66] T. Barboza, R. Pinalli, C. Massera, E. Dalcanale, Diphosphonate cavitands as molecular cups for l-lactic acid, *CrystEngComm* 18 (2016) 4958-4963. <https://doi.org/10.1039/c6ce00270f>.
- [67] D. Masseroni, E. Biavardi, D. Genovese, E. Rampazzo, L. Prodi, E. Dalcanale, A fluorescent probe for ecstasy, *Chem. Commun.* 51 (2015) 12799-12802. <https://doi.org/10.1039/c5cc04760a>.
- [68] G. Valenti, E. Rampazzo, E. Biavardi, E. Villani, G. Fracasso, M. Marcaccio, F. Bertani, D. Ramarli, E. Dalcanale, F. Paolucci, L. Prodi, An electrochemiluminescence-supramolecular approach to sarcosine detection for early diagnosis of prostate cancer, *Faraday Discuss.* 185 (2015) 299-309. <https://doi.org/10.1039/c5fd00096c>.
- [69] D. Menozzi, R. Pinalli, C. Massera, F. Maffei, E. Dalcanale, The effect of number and position of P=O/P=S bridging units on cavitand selectivity toward methyl ammonium salts, *Molecules* 20 (2015) 4460-4472. <https://doi.org/10.3390/molecules20034460>.
- [70] R. Pinalli, E. Dalcanale, P.G. Bracchi, Artificial olfactory system (SOA) for the control of the snail meat stability, *Ind. Aliment.* 54 (2015) 15-19. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944684625&partnerID=40&md5=decdd173b643045b74c22357c0fd849b>.
- [71] D. Menozzi, D.A. Leigh, E. Dalcanale, A rotaxane-like supramolecular assembly featuring orthogonal recognition modes, *Asian J. Org. Chem.* 4 (2015) 204-207. <https://doi.org/10.1002/ajoc.201402182>.
- [72] I. Elmi, L. Masini, G.C. Cardinali, E. Dalcanale, R. Pinalli, J.W. Trzcinski, F. Suriano, S. Zampolli, Selective environmental benzene monitoring microsystem based on optimized supramolecular receptors, in: 2015 Transducers - 2015 18th Int. Conf. Solid-State Sensors, Actuators Microsystems, TRANSDUCERS 2015, Institute of Electrical and Electronics Engineers Inc., CNR, Institute for Microelectronics and Microsystems (IMM), Bologna, Italy, 2015: pp. 957-960. <https://doi.org/10.1109/TRANSDUCERS.2015.7181083>.
- [73] D. Masseroni, E. Rampazzo, F. Rastrelli, D. Orsi, L. Ricci, G. Ruggeri, E. Dalcanale, pH-responsive host-guest polymerization and blending, *RSC Adv.* 5 (2015) 11334-11342. <https://doi.org/10.1039/c4ra14793f>.
- [74] F. Bertani, N. Cristiani, M. Mannini, R. Pinalli, R. Sessoli, E. Dalcanale, Iodinated Bis(phthalocyaninato)terbium(III) Complexes: Versatile Platforms for Functionalization of Single-Molecule Magnets through Sonogashira Reaction, *European J. Org. Chem.* 2015 (2015) 7036-7042. <https://doi.org/10.1002/ejoc.201501015>.
- [75] C. Tudisco, M.T. Cambria, F. Sinatra, F. Bertani, A. Alba, A.E. Giuffrida, S. Saccone, E. Fantechi, C. Innocenti, C. Sangregorio, E. Dalcanale, G.G. Condorelli, Multifunctional magnetic nanoparticles for enhanced intracellular drug transport, *J. Mater. Chem. B* 3 (2015) 4134-4145. <https://doi.org/10.1039/c5tb00547g>.
- [76] K. Misztal, C. Tudisco, A. Sartori, J.M. Malicka, R. Castelli, G.G. Condorelli, E. Dalcanale, Hierarchical self-assembly of luminescent Eu(III) complexes on silicon, *Eur. J. Inorg. Chem.* 2014 (2015) 2687-2694. <https://doi.org/10.1002/ejic.201402117>.
- [77] L. Pigani, R. Seeber, A. Bedini, E. Dalcanale, M. Suman, Determination of polyphenols in bakery food matrices with new detection methods, in: Lect. Notes Electr. Eng., Springer Verlag, Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, 41125 Modena, via G. Campi, 18, Italy, 2014: pp. 459-462. https://doi.org/10.1007/978-3-319-00684-0_88.
- [78] M. Dionisio, L. Ricci, G. Pecchini, D. Masseroni, G. Ruggeri, L. Cristofolini, E. Rampazzo, E. Dalcanale, Polymer blending through host-guest interactions, *Macromolecules* 47 (2014) 632-638. <https://doi.org/10.1021/ma401506t>.
- [79] R. De Zorzi, G. Brancatelli, M. Melegari, R. Pinalli, E. Dalcanale, S. Geremia, Selectivity assessment in host-

guest complexes from single-crystal X-ray diffraction data: The cavitand-alcohol case, *CrystEngComm* 16 (2014) 10987-10996. <https://doi.org/10.1039/c4ce01813c>.

- [80] L. Pigani, R. Seeber, A. Bedini, E. Dalcanale, M. Suman, Adsorptive-Stripping Voltammetry at PEDOT-Modified Electrodes. Determination of Epicatechin, *Food Anal. Methods* 7 (2014) 754-760. <https://doi.org/10.1007/s12161-013-9678-5>.
- [81] F. Bianchi, A. Bedini, N. Riboni, R. Pinalli, A. Gregori, L. Sidisky, E. Dalcanale, M. Careri, Cavitand-based solid-phase microextraction coating for the selective detection of nitroaromatic explosives in air and soil, *Anal. Chem.* 86 (2014) 10646-10652. <https://doi.org/10.1021/ac5025045>.
- [82] F. Lupo, C. Tudisco, F. Bertani, E. Dalcanale, G.G. Condorelli, In situ metalation of free base phthalocyanine covalently bonded to silicon surfaces, *Beilstein J. Nanotechnol.* 5 (2014) 2222-2229. <https://doi.org/10.3762/bjnano.5.231>.
- [83] M. Mannini, F. Bertani, C. Tudisco, L. Malavolti, L. Poggini, K. Misztal, D. Menozzi, A. Motta, E. Otero, P. Ohresser, P. Sainctavit, G.G. Condorelli, E. Dalcanale, R. Sessoli, Magnetic behaviour of TbPc 2 single-molecule magnets chemically grafted on silicon surface, *Nat. Commun.* 5 (2014). <https://doi.org/10.1038/ncomms5582>.
- [84] E. Biavardi, S. Federici, C. Tudisco, D. Menozzi, C. Massera, A. Sottini, G.G. Condorelli, P. Bergese, E. Dalcanale, Cavitand-grafted silicon microcantilevers as a universal probe for illicit and designer drugs in water, *Angew. Chemie - Int. Ed.* 53 (2014) 9183-9188. <https://doi.org/10.1002/anie.201404774>.
- [85] M. Tonezzer, E. Menin, S. Carturan, G. Maggioni, A. Quaranta, R. Pinalli, E. Dalcanale, Luminescent cavitands as novel optically active materials, in: *Lect. Notes Electr. Eng., D.I.M.T.I. - Università di Trento, 38123 Povo (TN), via Mesiano 77, Italy, 2014*: pp. 411-415. https://doi.org/10.1007/978-1-4614-3860-1_73.
- [86] A. Aprile, P. Pagliusi, F. Ciuchi, M.P. De Santo, R. Pinalli, E. Dalcanale, Probing cavitand-organosilane hybrid bilayers via sum-frequency vibrational spectroscopy, *Langmuir* 30 (2014) 12843-12849. <https://doi.org/10.1021/la503150z>.
- [87] K. Misztal, C. Tudisco, A. Sartori, J.M. Malicka, R. Castelli, G.G. Condorelli, E. Dalcanale, Hierarchical self-assembly of luminescent EuIII complexes on silicon, *Eur. J. Inorg. Chem.* (2014) 2687-2694. <https://doi.org/10.1002/ejic.201402117>.
- [88] N. Liberatore, D. Luciani, S. Mengali, R. Viola, G.C. Cardinali, I. Elmi, A. Poggi, S. Zampolli, E. Biavardi, E. Dalcanale, D. Menozzi, A new sensitive and fast detection system for amphetamine type stimulants (ATS), based on gas-chromatography (GC) and hollow fiber infrared absorption spectroscopy (HF-IRAS), in: *Lect. Notes Electr. Eng., Centro Ricerche Elettro Ottiche, L'Aquila 67100, SS.17 Localita' Boschetto, Italy, 2014*: pp. 177-182. https://doi.org/10.1007/978-1-4614-3860-1_31.
- [89] K. Misztal, A. Sartori, R. Pinalli, C. Massera, E. Dalcanale, Design and synthesis of a cavitand pillar for MOFs, in: *Supramol. Chem., Taylor and Francis Ltd., Department of Chemistry, INSTM, University of Parma, 43124, Parma, Parco Area delle Scienze 17/A, Italy, 2014*: pp. 151-156. <https://doi.org/10.1080/10610278.2013.835051>.
- [90] R. Pinalli, E. Dalcanale, Supramolecular sensing with phosphonate cavitands, *Acc. Chem. Res.* 46 (2013) 399-411. <https://doi.org/10.1021/ar300178m>.
- [91] A. Bedini, V. Zanolli, S. Zanardi, U. Bersellini, E. Dalcanale, M. Suman, Rapid and Simultaneous Analysis of Xanthenes and Polyphenols as Bitter Taste Markers in Bakery Products by FT-NIR Spectroscopy, *Food Anal. Methods* 6 (2013) 17-27. <https://doi.org/10.1007/s12161-012-9405-7>.
- [92] R. Pinalli, T. Barboza, F. Bianchi, C. Massera, F. Ugozzoli, E. Dalcanale, Detection of amphetamine precursors with quinoxaline-bridged cavitands, *Supramol. Chem.* 25 (2013) 682-687. <https://doi.org/10.1080/10610278.2013.814778>.
- [93] S. Mengali, N. Liberatore, D. Luciani, R. Viola, G.C. Cardinali, I. Elmi, A. Poggi, S. Zampolli, E. Biavardi, E. Dalcanale, F. Bonadio, O. Delemont, P. Esseiva, F.S. Romolo, Rapid screening and identification of illicit drugs by IR absorption spectroscopy and gas chromatography, in: *Proc. SPIE - Int. Soc. Opt. Eng., Centro Ricerche Elettro Ottiche, 67100 L'Aquila, SS.17 Localita' Boschetto, Italy, 2013*. <https://doi.org/10.1117/12.2003903>.
- [94] J. Reedijk, E. Dalcanale, B. Krebs, R. Marquardt, M. Morbidelli, H. Nakai, L. Panza, C. Poole, M. Quack, K. Wandelt, Reference module in chemistry, molecular sciences and chemical engineering, Elsevier Inc., Leiden University, Netherlands, 2013. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85178607495&partnerID=40&md5=1b6730ecf7bb41c16d51d93f917e1c52>.
- [95] M. Melegari, C. Massera, R. Pinalli, R.M. Yebeutchou, E. Dalcanale, Supramolecular sensing of short chain alcohols with mixed-bridged thio-phosphonate cavitands, *Sensors Actuators, B Chem.* 179 (2013) 74-80. <https://doi.org/10.1016/j.snb.2012.10.020>.
- [96] C. Tudisco, F. Bertani, M.T. Cambria, F. Sinatra, E. Fantechi, C. Innocenti, C. Sangregorio, E. Dalcanale, G.G. Condorelli, Functionalization of PEGylated Fe3O4 magnetic nanoparticles with tetraphosphonate cavitand for biomedical application, *Nanoscale* 5 (2013) 11438-11446. <https://doi.org/10.1039/c3nr02188b>.

- [97] R. Pinalli, E. Dalcanale, P.G. Bracchi, Very hard cheese with reduced NaCl content, *Ind. Aliment.* 52 (2013) 41-44. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940230131&partnerID=40&md5=db911169c74659a2007a01628e3730e5>.
- [98] A. Hackner, W. Legner, G. Müller, E. Biavardi, E. Dalcanale, S. Zampolli, I. Elmi, G.C. Cardinali, Surface ionization detection of amine containing drugs, *Sensors Actuators, B Chem.* 185 (2013) 771-776. <https://doi.org/10.1016/j.snb.2012.09.030>.
- [99] M. Ciardi, F. Tancini, G. Gil-Ramírez, E.C. Escudero Adán, C. Massera, E. Dalcanale, P. Ballester, Switching from separated to contact ion-pair binding modes with diastereomeric calix[4]pyrrole bis-phosphonate receptors, *J. Am. Chem. Soc.* 134 (2012) 13121-13132. <https://doi.org/10.1021/ja305684m>.
- [100] F. Tancini, E. Dalcanale, Polymerization with Ditopic Cavitand Monomers, in: *Supramol. Polym. Chem.*, Wiley-VCH, University of Parma, Department of Organic and Industrial Chemistry, 43124 Parma, Viale G. P. Usberti 17/A, Italy, 2012: pp. 71-93. <https://doi.org/10.1002/9783527639786.ch4>.
- [101] M. Dionisio, J.M. Schnorr, V.K. Michaelis, R.G. Griffin, T.M. Swager, E. Dalcanale, Cavitand-functionalized SWCNTs for N-methylammonium detection, *J. Am. Chem. Soc.* 134 (2012) 6540-6543. <https://doi.org/10.1021/ja301174m>.
- [102] Y.-L. Wu, F. Tancini, W.B. Schweizer, D. Paunescu, C. Boudon, J.-P. Gisselbrecht, P.D. Jarowski, E. Dalcanale, F. Diederich, Proacetylenic reactivity of a push-pull buta-1,2,3-triene: New chromophores and supramolecular systems, *Chem. - An Asian J.* 7 (2012) 1185-1190. <https://doi.org/10.1002/asia.201100997>.
- [103] C. Tudisco, P. Betti, A. Motta, R. Pinalli, L. Bombaci, E. Dalcanale, G.G. Condorelli, Cavitand-functionalized porous silicon as an active surface for organophosphorus vapor detection, *Langmuir* 28 (2012) 1782-1789. <https://doi.org/10.1021/la203797b>.
- [104] M. Dionisio, G. Oliviero, D. Menozzi, S. Federici, R.M. Yebeutcho, F.P. Schmidtchen, E. Dalcanale, P. Bergese, Nanomechanical recognition of N -methylammonium salts, *J. Am. Chem. Soc.* 134 (2012) 2392-2398. <https://doi.org/10.1021/ja210567k>.
- [105] E. Biavardi, C. Tudisco, F. Maffei, A. Motta, C. Massera, G.G. Condorelli, E. Dalcanale, Exclusive recognition of sarcosine in water and urine by a cavitand-functionalized silicon surface, *Proc. Natl. Acad. Sci. U. S. A.* 109 (2012) 2263-2268. <https://doi.org/10.1073/pnas.1112264109>.
- [106] M. Tonezzer, G. Maggioni, E. Dalcanale, Production of novel microporous porphyrin materials with superior sensing capabilities, *J. Mater. Chem.* 22 (2012) 5647-5655. <https://doi.org/10.1039/c2jm15008e>.
- [107] E. Dalcanale, Discussion 6.A: Discussion on the Report by J.-P. Launay, in: *From Non-Covalent Assem. to Mol. Mach.*, Wiley-VCH, 2011: pp. 429-434. <https://doi.org/10.1002/9783527632817.ch30>.
- [108] R. Pinalli, F. Boccini, E. Dalcanale, Cavitand-based coordination cages: Achievements and current challenges, *Isr. J. Chem.* 51 (2011) 781-797. <https://doi.org/10.1002/ijch.201100057>.
- [109] C. Massera, M. Melegari, E. Kalenius, F. Ugozzoli, E. Dalcanale, Supramolecular control of single-crystal-to-single-crystal transformation through selective guest exchange, *Chem. - A Eur. J.* 17 (2011) 3064-3068. <https://doi.org/10.1002/chem.201003407>.
- [110] F. Maffei, P. Betti, D. Genovese, M. Montalti, L. Prodi, R. Dea Zorzi, S. Geremia, E. Dalcanale, Highly selective chemical vapor sensing by molecular recognition: Specific detection of C1-C4 alcohols with a fluorescent phosphonate cavitand, *Angew. Chemie - Int. Ed.* 50 (2011) 4654-4657. <https://doi.org/10.1002/anie.201100738>.
- [111] M. Dionisio, F. Maffei, E. Rampazzo, L. Prodi, A. Pucci, G. Ruggeri, E. Dalcanale, Guest-controlled aggregation of cavitand gold nanoparticles and N-methyl pyridinium-terminated PEG, *Chem. Commun.* 47 (2011) 6596-6598. <https://doi.org/10.1039/c1cc11192b>.
- [112] E. Dalcanale, Discussion 6.B: Discussion on the Prepared Comments by J. Rebek, T.F. Otero, T. Aida, B.L. Feringa, and J.F. Stoddart, in: *From Non-Covalent Assem. to Mol. Mach.*, Wiley-VCH, 2011: pp. 463-466. <https://doi.org/10.1002/9783527632817.ch34>.
- [113] L. Baldini, M. Melegari, V. Bagnacani, A. Casnati, E. Dalcanale, F. Sansone, R. Ungaro, CO₂ capture by multivalent amino-functionalized calix[4]arenes: Self-assembly, absorption, and QCM detection studies, *J. Org. Chem.* 76 (2011) 3720-3732. <https://doi.org/10.1021/jo200650f>.
- [114] M. Busi, B. Cantadori, F. Boccini, R. De Zorzi, S. Geremia, E. Dalcanale, Molecular recognition with ditopic cavitand re complexes, *European J. Org. Chem.* (2011) 2629-2642. <https://doi.org/10.1002/ejoc.201001668>.
- [115] E. Kalenius, R. Neitola, M. Suman, E. Dalcanale, P. Vainiotalo, Hydrogen Bonding in Phosphonate Cavitands: Investigation of Host-Guest Complexes with Ammonium Salts, *J. Am. Soc. Mass Spectrom.* 21 (2010) 440-450. <https://doi.org/10.1016/j.jasms.2009.11.009>.
- [116] F. Tancini, E. Rampazzo, E. Dalcanale, Interplay between cyclization and polymerization in ditopic cavitand monomers, *Aust. J. Chem.* 63 (2010) 646-652. <https://doi.org/10.1071/CH09630>.
- [117] M. Tonezzer, G. Maggioni, M. Melegari, E. Dalcanale, Novel vacuum evaporated cavitand sensors for detecting very low alcohol concentrations, in: *Lect. Notes Electr. Eng.*, D.I.M.T.I., University of Trento,

38050 Povo (TN), via Mesiano 77, Italy, **2010**: pp. 161-164. https://doi.org/10.1007/978-90-481-3606-3_29.

- [118] D. Menozzi, E. Biavardi, C. Massera, F.-P. Schmidtchen, A. Cornia, E. Dalcanale, Thermodynamics of host-guest interactions between methylpyridinium salts and phosphonate cavitands, *Supramol. Chem.* **22** (2010) 768-775. <https://doi.org/10.1080/10610278.2010.506547>.
- [119] F. Tancini, T. Gottschalk, W. Bernd Schweizer, F. Diederich, E. Dalcanale, Ion-pair complexation with a cavitand receptor, *Chem. - A Eur. J.* **16** (2010) 7813-7819. <https://doi.org/10.1002/chem.201000573>.
- [120] F. Tancini, D. Genovese, M. Montalti, L. Cristofolini, L. Nasi, L. Prodi, E. Dalcanale, Hierarchical self-assembly on silicon, *J. Am. Chem. Soc.* **132** (2010) 4781-4789. <https://doi.org/10.1021/ja9099938>.
- [121] M. Melegari, C. Massera, F. Ugozzoli, E. Dalcanale, Tetrakisphosphonate cavitands: Interplay between metal coordination and H-bonding in the formation of dimeric capsules, *CrystEngComm* **12** (2010) 2057-2059. <https://doi.org/10.1039/c003426f>.
- [122] C. Massera, M. Melegari, F. Ugozzoli, E. Dalcanale, Formation of tetrameric water clusters driven by a cavitand template, *Chem. Commun.* **46** (2010) 88-90. <https://doi.org/10.1039/b917931c>.
- [123] G.G. Condorelli, A. Motta, M. Favazza, E. Gurrieri, P. Betti, E. Dalcanale, Molecular recognition of halogen-tagged aromatic VOCs at the air-silicon interface, *Chem. Commun.* **46** (2010) 288-290. <https://doi.org/10.1039/b915572d>.
- [124] F. Tancini, R.M. Yebeutchou, L. Pirondini, R. Dezorzi, S. Geremia, O.A. Scherman, E. Dalcanale, Host-guest-driven copolymerization of tetrakisphosphonate cavitands, *Chem. - A Eur. J.* **16** (2010) 14313-14321. <https://doi.org/10.1002/chem.201002237>.
- [125] B. Dubessy, S. Harthong, C. Aronica, D. Bouchu, M. Busi, E. Dalcanale, J.-P. Dutasta, Self-complementary phosphonate cavitands, *J. Org. Chem.* **74** (2009) 3923-3926. <https://doi.org/10.1021/jo900236n>.
- [126] E. Biavardi, M. Favazza, A. Motta, I.L. Fragalà, C. Massera, L. Prodi, M. Montalti, M. Melegari, G.G. Condorelli, E. Dalcanale, Molecular recognition on a cavitand-functionalized silicon surface, *J. Am. Chem. Soc.* **131** (2009) 7447-7455. <https://doi.org/10.1021/ja901678b>.
- [127] L. Bogani, C. Danieli, E. Biavardi, N. Bendiab, A.-L. Barra, E. Dalcanale, W. Wernsdorfer, A. Cornia, Single-molecule-magnet carbon-nanotube hybrids, *Angew. Chemie - Int. Ed.* **48** (2009) 746-750. <https://doi.org/10.1002/anie.200804967>.
- [128] S. Zampolli, I. Elmi, F. Mancarella, P. Betti, E. Dalcanale, G.C. Cardinali, M. Severi, Real-time monitoring of sub-ppb concentrations of aromatic volatiles with a MEMS-enabled miniaturized gas-chromatograph, *Sensors Actuators, B Chem.* **141** (2009) 322-328. <https://doi.org/10.1016/j.snb.2009.06.021>.
- [129] F. Gruppi, F. Boccini, L. Elviri, E. Dalcanale, Self-assembly of a cavitand-based heteronuclear coordination cage, *Tetrahedron* **65** (2009) 7289-7295. <https://doi.org/10.1016/j.tet.2008.11.111>.
- [130] R.M. Yebeutchou, E. Dalcanale, Highly selective monomethylation of primary amines through host-guest product sequestration, *J. Am. Chem. Soc.* **131** (2009) 2452-2453. <https://doi.org/10.1021/ja809614y>.
- [131] B. Gadenne, M. Semeraro, R.M. Yebeutchou, F. Tancini, L. Pirondini, E. Dalcanale, A. Credi, Electrochemically controlled formation/dissociation of phosphonate-cavitand/methylpyridinium complexes, *Chem. - A Eur. J.* **14** (2008) 8964-8971. <https://doi.org/10.1002/chem.200800966>.
- [132] E. Biavardi, G. Battistini, M. Montalti, R.M. Yebeutchou, L. Prodi, E. Dalcanale, Fully reversible guest exchange in tetrakisphosphonate cavitand complexes probed by fluorescence spectroscopy, *Chem. Commun.* (2008) 1638-1640. <https://doi.org/10.1039/b801729h>.
- [133] F. Bianchi, M. Mattarozzi, P. Betti, F. Bisceglie, M. Careri, A. Mangia, L. Sidisky, S. Ongarato, E. Dalcanale, Innovative cavitand-based sol-gel coatings for the environmental monitoring of benzene and chlorobenzenes via solid-phase microextraction, *Anal. Chem.* **80** (2008) 6423-6430. <https://doi.org/10.1021/ac800881g>.
- [134] B. Cantadori, P. Betti, F. Boccini, C. Massera, E. Dalcanale, Synthesis of partially bridged phosphonate and thiophosphonate resorcinarenes, in: *Supramol. Chem.*, Dipartimento di Chimica Organica ed Industriale, Università di Parma, INSTM UdR Parma, 43100 Parma, viale G. Usberti 17/A, Italy, **2008**: pp. 29-34. <https://doi.org/10.1080/10610270701798803>.
- [135] L. Pirondini, E. Dalcanale, Supramolecular 3D Architectures by Metal-directed Assembly of Synthetic Macrocycles, in: *Mod. Supramol. Chem. Strateg. Macrocyclic Synth.*, John Wiley and Sons, Università di Parma, Dipartimento di Chimica Organica e Industriale, 43100 Parma, Viale G. P. Usberti 17/A, Italy, **2008**: pp. 233-276. <https://doi.org/10.1002/9783527621484.ch7>.
- [136] S.S. Zhu, H. Staats, K. Brandhorst, J. Grunenberg, F. Gruppi, E. Dalcanale, A. Lützen, K. Rissanen, C.A. Schalley, Anion binding to resorcinarene-based cavitands: The importance of C-H...anion interactions, *Angew. Chemie - Int. Ed.* **47** (2008) 788-792. <https://doi.org/10.1002/anie.200703451>.
- [137] R.M. Yebeutchou, F. Tancini, N. Demitri, S. Geremia, R. Mendichi, E. Dalcanale, Host-guest driven self-assembly of linear and star supramolecular polymers, *Angew. Chemie - Int. Ed.* **47** (2008) 4504-4508. <https://doi.org/10.1002/anie.200801002>.

- [138] M. Melegari, M. Suman, L. Pirondini, D. Moiani, C. Massera, F. Ugozzoli, E. Kalenius, P. Vainiotalo, J.-C. Mulatier, J.-P. Dutasta, E. Dalcanale, Supramolecular sensing with phosphonate cavitands, *Chem. - A Eur. J.* 14 (2008) 5772-5779. <https://doi.org/10.1002/chem.200800327>.
- [139] M. Tonezzer, M. Melegari, G. Maggioni, R. Milan, G. Della Mea, E. Dalcanale, Vacuum-evaporated cavitand sensors: Dissecting specific from nonspecific interactions in ethanol detection, *Chem. Mater.* 20 (2008) 6535-6542. <https://doi.org/10.1021/cm801778f>.
- [140] M. Suman, G. Riani, E. Dalcanale, MOS-based artificial olfactory system for the assessment of egg products freshness, *Sensors Actuators, B Chem.* 125 (2007) 40-47. <https://doi.org/10.1016/j.snb.2007.01.031>.
- [141] L. Pirondini, E. Dalcanale, Molecular recognition at the gas-solid interface: A powerful tool for chemical sensing, *Chem. Soc. Rev.* 36 (2007) 695-706. <https://doi.org/10.1039/b516256b>.
- [142] S. Zampolli, P. Betti, I. Elmi, E. Dalcanale, A supramolecular approach to sub-ppb aromatic VOC detection in air, *Chem. Commun.* (2007) 2790-2792. <https://doi.org/10.1039/b703747c>.
- [143] M. Busi, M. Laurenti, G.G. Condorelli, A. Motta, M. Favazza, I.L. Fragalà, M. Montalti, L. Prodi, E. Dalcanale, Self-assembly of nanosize coordination cages on Si(100) surfaces, *Chem. - A Eur. J.* 13 (2007) 6891-6898. <https://doi.org/10.1002/chem.200700496>.
- [144] S.M. Daly, M. Grassi, D.K. Shenoy, F. Ugozzoli, E. Dalcanale, Supramolecular surface plasmon resonance (SPR) sensors for organophosphorus vapor detection, *J. Mater. Chem.* 17 (2007) 1809-1818. <https://doi.org/10.1039/b615516b>.
- [145] E. Kalenius, D. Moiani, E. Dalcanale, P. Vainiotalo, Measuring H-bonding in supramolecular complexes by gas phase ion-molecule reactions, *Chem. Commun.* (2007) 3865-3867. <https://doi.org/10.1039/b707842k>.
- [146] L. Pirondini, M. Melegari, R. Pinalli, E. Dalcanale, Introduction of water-solubilizing groups at the lower rim of tolylpyridine-bridged cavitands, in: *Supramol. Chem., Dipartimento di Chimica Organica e Industriale, Università di Parma, Parma, 43100, Viale G.P. Usberti 17/A, Italy, 2007*: pp. 67-74. <https://doi.org/10.1080/10610270600932826>.
- [147] G.G. Condorelli, A. Motta, M. Favazza, I.L. Fragalà, M. Busi, E. Menozzi, E. Dalcanale, L. Cristofolini, Grafting cavitands on the Si(100) surface, *Langmuir* 22 (2006) 11126-11133. <https://doi.org/10.1021/la060682p>.
- [148] P. Roncucci, L. Pirondini, G. Paderni, C. Massera, E. Dalcanale, V.A. Azov, F. Diederich, Conformational behavior of pyrazine-bridged and mixed-bridged cavitands: A general model for solvent effects on thermal "vase-kite" switching, *Chem. - A Eur. J.* 12 (2006) 4775-4784. <https://doi.org/10.1002/chem.200600085>.
- [149] S. Zampolli, I. Elmi, G.C. Cardinali, L. Masini, A. Zani, M. Severi, P. Betti, E. Dalcanale, A palm-sized gas-chromatographic system for sub-ppb VOC detection in air quality monitoring applications, in: *Proc. IEEE Sensors, IMM - Institute for Microelectronics and Microsystems, CNR - National Research Council, Bologna, Italy, 2006*: pp. 1163-1166. <https://doi.org/10.1109/ICSENS.2007.355837>.
- [150] P. Pagliusi, F. Lagugn -Labarthe, D.K. Shenoy, E. Dalcanale, Y.R. Shen, Sensing vase-to-kite switching of cavitands by sum-frequency vibrational spectroscopy, *J. Am. Chem. Soc.* 128 (2006) 12610-12611. <https://doi.org/10.1021/ja064158g>.
- [151] E. Menozzi, M. Busi, C. Massera, F. Ugozzoli, D. Zuccaccia, A. Macchioni, E. Dalcanale, Metal-directed self-assembly of cavitand frameworks, *J. Org. Chem.* 71 (2006) 2617-2624. <https://doi.org/10.1021/jo052460m>.
- [152] M. Ferrari, V. Ferrari, D. Marioli, A. Taroni, M. Suman, E. Dalcanale, In-liquid sensing of chemical compounds by QCM sensors coupled with high-accuracy ACC oscillator, *IEEE Trans. Instrum. Meas.* 55 (2006) 828-834. <https://doi.org/10.1109/TIM.2006.873792>.
- [153] E. Ventola, P. Vainiotalo, M. Suman, E. Dalcanale, ESI-FTICR mass spectrometric study of alcohol complexation properties of mono- and diphosphonate-bridged cavitands, *J. Am. Soc. Mass Spectrom.* 17 (2006) 213-221. <https://doi.org/10.1016/j.jasms.2005.10.017>.
- [154] L. Pirondini, D. Bonifazi, B. Cantadori, P. Braiuca, M. Campagnolo, R.D. Zorzi, S. Geremia, F. Diederich, E. Dalcanale, Inclusion of methano[60]fullerene derivatives in cavitand-based coordination cages, *Tetrahedron* 62 (2006) 2008-2015. <https://doi.org/10.1016/j.tet.2005.06.122>.
- [155] D. Zuccaccia, L. Pirondini, R. Pinalli, E. Dalcanale, A. Macchioni, Dynamic and structural NMR studies of cavitand-based coordination cages, *J. Am. Chem. Soc.* 127 (2005) 7025-7032. <https://doi.org/10.1021/ja042265+>.
- [156] F. Lagugn -Labarthe, Y.Q. An, T. Yu, Y.R. Shen, E. Dalcanale, D.K. Shenoy, Proton driven vase-to-kite conformational change in cavitands at an air-water interface monitored by surface SHG, *Langmuir* 21 (2005) 7066-7070. <https://doi.org/10.1021/la050821n>.
- [157] E. Menozzi, M. Busi, R. Ramingo, M. Campagnolo, S. Geremia, E. Dalcanale, Design and self-assembly of ditopic and tetratopic cavitand complexes, *Chem. - A Eur. J.* 11 (2005) 3136-3148. <https://doi.org/10.1002/chem.200401061>.
- [158] M. Ferrari, V. Ferrari, D. Marioli, A. Taroni, M. Suman, E. Dalcanale, Cavitand-coated PZT resonant piezo-

layer sensors: Properties, structure, and comparison with QCM sensors at different temperatures under exposure to organic vapors, *Sensors Actuators, B Chem.* 103 (2004) 240-246. <https://doi.org/10.1016/j.snb.2004.04.077>.

- [159] M. Ferrari, V. Ferrari, D. Marioli, A. Taroni, M. Suman, E. Dalcanale, Combined measurements of acoustic and dielectric loading on cavitand-coated TSM quartz sensors with ACC oscillator for in-liquid chemical detection, in: Proc. IEEE Sensors, Dipartimento di Elettronica per l'Automazione, INFM, Università di Brescia, 25123 Brescia, Via Branze 38, Italy, 2004: pp. 445-448. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-27944457576&partnerID=40&md5=0466794b7475d32a7c04d71b162e0101>.
- [160] M. Ferrari, V. Ferrari, D. Marioli, A. Taroni, M. Suman, E. Dalcanale, In-liquid sensing of chemical compounds by QCM sensors coupled with high-accuracy ACC oscillator, in: Conf. Rec. - IEEE Instrum. Meas. Technol. Conf., Dept. of Electronics for Automation, INFM, University of Brescia, 25123 Brescia, Via Branze 38, Italy, 2004: pp. 20-25. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-4644247938&partnerID=40&md5=07c6f5ca0899a5730d3d5e73b1e34a76>.
- [161] E.B. Feresenbet, E. Dalcanale, C. Dulcey, D.K. Shenoy, Optical sensing of the selective interaction of aromatic vapors with cavitands, *Sensors Actuators, B Chem.* 97 (2004) 211-220. <https://doi.org/10.1016/j.snb.2003.08.016>.
- [162] E. Menozzi, R. Pinalli, E.A. Speets, B.J. Ravoo, E. Dalcanale, D.N. Reinhoudt, Surface-Confined Single Molecules: Assembly and Disassembly of Nanosize Coordination Cages on Gold (111), *Chem. - A Eur. J.* 10 (2004) 2199-2206. <https://doi.org/10.1002/chem.200305570>.
- [163] R. Pinalli, V. Cristini, V. Sottili, S. Geremia, M. Campagnolo, A. Caneschi, E. Dalcanale, Cavitand-based nanoscale coordination cages, *J. Am. Chem. Soc.* 126 (2004) 6516-6517. <https://doi.org/10.1021/ja038694+>.
- [164] C. Di Natale, R. Paolesse, A. Macagnano, S. Nardis, E. Martinelli, E. Dalcanale, M. Costa, A. D'Amico, Sensitivity-selectivity balance in mass sensors: The case of metalloporphyrins, *J. Mater. Chem.* 14 (2004) 1281-1287. <https://doi.org/10.1039/b313250a>.
- [165] E.B. Feresenbet, M. Busi, F. Ugozzoli, E. Dalcanale, D.K. Shenoy, Influence of cavity depth on the responses of SPR sensors coated with self-assembled monolayers of cavitands, *Sens. Lett.* 2 (2004) 186-193. <https://doi.org/10.1166/sl.2004.053>.
- [166] L. Pirondini, G. Vecchi, S. Negri, A. Di Blasi, C. Massera, E. Dalcanale, Design and preparation of mesogenic cavitands, *Collect. Czechoslov. Chem. Commun.* 69 (2004) 1362-1380. <https://doi.org/10.1135/cccc20041362>.
- [167] R. Pinalli, M. Suman, E. Dalcanale, Cavitands at Work: From Molecular Recognition to Supramolecular Sensors, *European J. Org. Chem.* (2004) 451-462. <https://doi.org/10.1002/ejoc.200300430>.
- [168] F. Lagugné-Labarthe, T. Yu, W.R. Barger, D.K. Shenoy, E. Dalcanale, Y.R. Shen, Orientation of cavitands at air/water and air/solid interfaces studied by second harmonic generation, *Chem. Phys. Lett.* 381 (2003) 322-328. <https://doi.org/10.1016/j.cplett.2003.09.090>.
- [169] R. Paolesse, C. Di Natale, S. Nardis, A. Macagnano, A. D'Amico, R. Pinalli, E. Dalcanale, Investigation of the Origin of Selectivity in Cavitand-Based Supramolecular Sensors, *Chem. - A Eur. J.* 9 (2003) 5388-5395. <https://doi.org/10.1002/chem.200304775>.
- [170] D.K. Shenoy, E.B. Feresenbet, R. Pinalli, E. Dalcanale, Effect of Thin Film Processing on Cavitand Selectivity, *Langmuir* 19 (2003) 10454-10456. <https://doi.org/10.1021/la0350857>.
- [171] M. Suman, E. Dalcanale, M. Ferrari, V. Ferrari, D. Marioli, A. Taroni, Cavitand based supramolecular QCM sensors for accurate measurements of aromatic and chlorinated compounds in liquid applications, in: Proc. IEEE Sensors, Institute of Electrical and Electronics Engineers Inc., Dipartimento di Chimica Organica, Industriale and INSTM, Università di Parma, Parco Area Scienze 17a, 43100 Parma, Italy, 2003: pp. 129-132. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-1542333784&partnerID=40&md5=e8e3254d58e1d64fe7491dcd2ccc99d4>.
- [172] M. Suman, M. Freddi, C. Massera, F. Ugozzoli, E. Dalcanale, Rational design of cavitand receptors for mass sensors, *J. Am. Chem. Soc.* 125 (2003) 12068-12069. <https://doi.org/10.1021/ja0355271>.
- [173] L. Pirondini, A.G. Stendardo, S. Geremia, M. Campagnolo, P. Samorì, J.P. Rabe, R. Fokkens, E. Dalcanale, Dynamic materials through metal-directed and solvent-driven self-assembly of cavitands, *Angew. Chemie - Int. Ed.* 42 (2003) 1384-1387. <https://doi.org/10.1002/anie.200390355>.
- [174] F. Bianchi, R. Pinalli, F. Ugozzoli, S. Spera, M. Careri, E. Dalcanale, Cavitands as superior sorbents for benzene detection at trace level, *New J. Chem.* 27 (2003) 502-509. <https://doi.org/10.1039/b210942e>.
- [175] G. Zotti, S. Zecchin, G. Schiavon, B. Vercelli, A. Berlin, E. Dalcanale, L. Groenendaal, Potential-Driven Conductivity of Polypyrroles, Poly-N-Alkylpyrroles, and Polythiophenes: Role of the Pyrrole NH Moiety in the Doping-Charge Dependence of Conductivity, *Chem. Mater.* 15 (2003) 4642-4650. <https://doi.org/10.1021/cm030336i>.
- [176] E.B. Feresenbet, E. Dalcanale, C. Dulcey, D.K. Shenoy, A surface plasmon resonance investigation of the selective interaction of organic vapors with cavitands, in: *Mol. Cryst. Liq. Cryst.*, Taylor and Francis Inc.,

- [177] L. Pirondini, F. Bertolini, B. Cantadori, F. Ugozzoli, C. Massera, E. Dalcanale, Design and self-assembly of wide and robust coordination cages, *Proc. Natl. Acad. Sci. U. S. A.* **99** (**2002**) 4911-4915. <https://doi.org/10.1073/pnas.072612199>.
- [178] C. Goletti, R. Paolesse, E. Dalcanale, T. Berzina, C. Di Natale, G. Bussetti, P. Chiaradia, A. Froiio, L. Cristofolini, M. Costa, A. D'Amico, Thickness dependence of the optical anisotropy for porphyrin octaester Langmuir-Schaefer films, *Langmuir* **18** (**2002**) 6881-6886. <https://doi.org/10.1021/la025756l>.
- [179] C. Goletti, G. Bussetti, P. Chiaradia, R. Paolesse, A. Froiio, E. Dalcanale, T. Berzina, C. Di Natale, A. D'Amico, Structure-dependent optical anisotropy of porphyrin Langmuir-Schaefer films, *Surf. Sci.* **521** (**2002**) L645-L649. [https://doi.org/10.1016/S0039-6028\(02\)02307-5](https://doi.org/10.1016/S0039-6028(02)02307-5).
- [180] B. Vercelli, S. Zecchin, N. Comisso, G. Zotti, A. Berlin, E. Dalcanale, L. Groenendaal, Solvoconductivity of polyconjugated polymers: The roles of polymer oxidation degree and solvent electrical permittivity, *Chem. Mater.* **14** (**2002**) 4768-4774. <https://doi.org/10.1021/cm0205938>.
- [181] M. Suman, N. Bouzouane, E. Barbieri, F. Ugozzoli, E. Dalcanale, Cavitand-based supramolecular sensors for the detection of acetates, *J. Supramol. Chem.* **2** (**2002**) 97-106. [https://doi.org/10.1016/S1472-7862\(02\)00085-0](https://doi.org/10.1016/S1472-7862(02)00085-0).
- [182] V.I. Troitsky, T.S. Berzina, E. Dalcanale, M.P. Fontana, An approach for fabrication of junctions with Langmuir-Blodgett films incorporated between molecular electrodes, *Thin Solid Films* **405** (**2002**) 276-289. [https://doi.org/10.1016/S0040-6090\(01\)01758-8](https://doi.org/10.1016/S0040-6090(01)01758-8).
- [183] M. Costa, E. Dalcanale, F.S. Dias, C. Graiff, A. Tiripicchio, L. Bigliardi, New trisubstituted cyclopentadienyl ligands: Synthesis, characterisation and catalytic properties of mono and dinuclear cobalt, rhodium, iron and ruthenium complexes, *J. Organomet. Chem.* **619** (**2001**) 179-193. [https://doi.org/10.1016/S0022-328X\(00\)00652-5](https://doi.org/10.1016/S0022-328X(00)00652-5).
- [184] S.A. Levi, P. Guatterri, F.C.J.M. Van Veggel, G. Julius Vancso, E. Dalcanale, D.N. Reinhoudt, Direct observation of surface-controlled self-assembly of coordination cages by using AFM as a molecular ruler, *Angew. Chemie - Int. Ed.* **40** (**2001**) 1892-1896. [https://doi.org/10.1002/1521-3773\(20010518\)40:10<1892::AID-ANIE1892>3.0.CO;2-J](https://doi.org/10.1002/1521-3773(20010518)40:10<1892::AID-ANIE1892>3.0.CO;2-J).
- [185] N. Cuminetti, M.H.K. Ebbing, P. Prados, J. De Mendoza, E. Dalcanale, Enlarged cavitand-based coordination cages, *Tetrahedron Lett.* **42** (**2001**) 527-530. [https://doi.org/10.1016/S0040-4039\(00\)01991-2](https://doi.org/10.1016/S0040-4039(00)01991-2).
- [186] F. Fochi, P. Jacopozzi, E. Wegelius, K. Rissanen, P. Cozzini, E. Marastoni, E. Fisicaro, P. Manini, R. Fokkens, E. Dalcanale, Self-assembly and anion encapsulation properties of cavitand-based coordination cages, *J. Am. Chem. Soc.* **123** (**2001**) 7539-7552. <https://doi.org/10.1021/ja0103492>.
- [187] L. Pirondini, D. Bonifazi, E. Menozzi, E. Wegelius, K. Rissanen, C. Massera, E. Dalcanale, Synthesis and coordination chemistry of lower rim cavitand ligands, *European J. Org. Chem.* (**2001**) 2311-2320. [https://doi.org/10.1002/1099-0690\(200106\)2001:12<2311::aid-ejoc2311>3.0.co;2-%23](https://doi.org/10.1002/1099-0690(200106)2001:12<2311::aid-ejoc2311>3.0.co;2-%23).
- [188] A. Irico, M. Vincenti, E. Dalcanale, Diastereoselective formation of host - Guest complexes between a series of phosphate-bridged cavitands and alkyl- and arylammonium ions studied by liquid secondary-ion mass spectrometry, *Chem. - A Eur. J.* **7** (**2001**) 2034-2042. [https://doi.org/10.1002/1521-3765\(20010504\)7:9<2034::AID-CHEM2034>3.0.CO;2-J](https://doi.org/10.1002/1521-3765(20010504)7:9<2034::AID-CHEM2034>3.0.CO;2-J).
- [189] P. Facci, M.P. Fontana, E. Dalcanale, M. Costa, T. Sacchelli, Molecular reorganization in Langmuir-Blodgett films of mesogenic Zn-porphyrin octaesters, *Langmuir* **16** (**2000**) 7726-7730. <https://doi.org/10.1021/la000275s>.
- [190] J.M.J. Nuutine, A. Irico, M. Vincenti, E. Dalcanale, J.M.H. Pakarinen, P. Vainiotalo, Gas-phase ion - Molecule reactions between a series of protonated diastereomeric cavitands and neutral amines studied by ESI-FTICRMS: Gas-phase inclusion complex formation, *J. Am. Chem. Soc.* **122** (**2000**) 10090-10100. <https://doi.org/10.1021/ja000486j>.
- [191] M. Pardo, G. Sberveglieri, S. Gardini, E. Dalcanale, Hierarchical classification scheme for an electronic nose, *Sensors Actuators, B Chem.* **69** (**2000**) 359-365. [https://doi.org/10.1016/S0925-4005\(00\)00486-X](https://doi.org/10.1016/S0925-4005(00)00486-X).
- [192] E. Dalcanale, G. Antonioli, M. Ricco, H. Groothues, F. Kremer, Molecular dynamics and conformational behaviour of mesogenic resorcinarenes, *Liq. Cryst.* **27** (**2000**) 1161-1169. <https://doi.org/10.1080/02678290050122006>.
- [193] R. Pinalli, F.F. Nachtigall, F. Ugozzoli, E. Dalcanale, Supramolecular sensors for the detection of alcohols, *Angew. Chemie - Int. Ed.* **38** (**1999**) 2377-2380. [https://doi.org/10.1002/\(SICI\)1521-3773\(19990816\)38:16<2377::AID-ANIE2377>3.0.CO;2-O](https://doi.org/10.1002/(SICI)1521-3773(19990816)38:16<2377::AID-ANIE2377>3.0.CO;2-O).
- [194] V. Paganuzzi, P. Guatterri, P. Riccardi, T. Sacchelli, J. Barberá, M. Costa, E. Dalcanale, Synthesis and mesogenic properties of porphyrin octaesters, *European J. Org. Chem.* (**1999**) 1527-1539. [https://doi.org/10.1002/\(sici\)1099-0690\(199907\)1999:7<1527::aid-ejoc1527>3.0.co;2-f](https://doi.org/10.1002/(sici)1099-0690(199907)1999:7<1527::aid-ejoc1527>3.0.co;2-f).

- [195] E. Dalcanale, P. Jacopozi, F. Ugozzoli, G. Mann, Synthesis and configurational analysis of mixed-bridged phosphate cavitands, *Supramol. Chem.* 9 (1998) 305-316. <https://doi.org/10.1080/10610279808035000>.
- [196] P. Jacopozi, E. Dalcanale, S. Spera, L.A.J. Christoffels, D.N. Reinhoudt, T. Lippmann, G. Mann, Synthesis and configurational analysis of phosphonate cavitands, *J. Chem. Soc. Perkin Trans. 2* (1998) 671-677. <https://doi.org/10.1039/a706865d>.
- [197] P. Battistini, M. Carcelli, E. Dalcanale, C. Pelizzi, G. Pelizzi, L. Righini, Nickel(II) complexes of 2,6-disubstituted pyridine bishydrazones as potential metallomesogens. suppression of the mesogenic properties induced by dimerization, *Mol. Cryst. Liq. Cryst. Sci. Technol. Sect. A Mol. Cryst. Liq. Cryst.* 309 (1998) 167-188. <https://doi.org/10.1080/10587259808045527>.
- [198] M. Careri, E. Dalcanale, A. Mangia, M. Ruffini, Cavitand Sorbents for the Selective Adsorption of Organic Compounds by the Purge-and-trap Technique, *Anal. Commun.* 34 (1997) 13-15. <https://doi.org/10.1039/a607363h>.
- [199] P. Jacopozi, E. Dalcanale, Metal-Induced Self-Assembly of Cavitand-Based Cage Molecules, *Angew. Chemie (International Ed. English)* 36 (1997) 613-615. <https://doi.org/10.1002/anie.199706131>.
- [200] E. Sartori, M.P. Fontana, E. Dalcanale, M. Costa, Self-organization in stable and metastable langmuir-blodgett films of liquid crystalline porphyrins, *Mol. Cryst. Liq. Cryst. Sci. Technol. Sect. A Mol. Cryst. Liq. Cryst.* 290 (1996) 31-39. <https://doi.org/10.1080/10587259608031889>.
- [201] J. Hartmann, P. Hauptmann, S. Levi, E. Dalcanale, Chemical sensing with cavitands: Influence of cavity shape and dimensions on the detection of solvent vapors, *Sensors Actuators, B Chem.* 35 (1996) 154-157. [https://doi.org/10.1016/S0925-4005\(97\)80046-9](https://doi.org/10.1016/S0925-4005(97)80046-9).
- [202] J. Hartmann, J. Auge, R. Lucklum, S. Rösler, P. Hauptmann, B. Adler, E. Dalcanale, Supramolecular interactions on mass sensitive sensors in gas phases and liquids, *Sensors Actuators, B Chem.* 34 (1996) 305-311. [https://doi.org/10.1016/S0925-4005\(96\)01893-X](https://doi.org/10.1016/S0925-4005(96)01893-X).
- [203] E. Sartori, M.P. Fontana, M. Costa, E. Dalcanale, V. Paganuzzi, Langmuir-Blodgett films of mesogenic porphyrin derivatives, *Thin Solid Films* 284-285 (1996) 204-207. [https://doi.org/10.1016/S0040-6090\(95\)08306-5](https://doi.org/10.1016/S0040-6090(95)08306-5).
- [204] T. Lippmann, H. Wilde, E. Dalcanale, L. Mavilla, G. Mann, U. Heyer, S. Spera, Synthesis and Configurational Analysis of a Novel Class of Cavitands Containing Four Dioxaphosphocin Moieties, *J. Org. Chem.* 60 (1995) 235-242. <https://doi.org/10.1021/jo00106a039>.
- [205] A. Secchi, E. Dalcanale, M. Vincenti, C. Minero, E. Pelizzetti, Host-guest chemistry in the gas phase and at the gas-solid interface: Fundamental aspects and practical applications, *Pure Appl. Chem.* 67 (1995) 1075-1084. <https://doi.org/10.1351/pac199567071075>.
- [206] E. Dalcanale, J. Hartmann, Selective detection of organic compounds by means of cavitand-coated QCM transducers, *Sensors Actuators B. Chem.* 24 (1995) 39-42. [https://doi.org/10.1016/0925-4005\(95\)85009-0](https://doi.org/10.1016/0925-4005(95)85009-0).
- [207] L. Cristofolini, M. Riccò, R. De Renzi, E. Dalcanale, L. Mavilla, Observation of endohedral muonium in C₆H₂, *Chem. Phys. Lett.* 234 (1995) 260-264. [https://doi.org/10.1016/0009-2614\(95\)00019-Z](https://doi.org/10.1016/0009-2614(95)00019-Z).
- [208] J. Hartmann, J. Auge, R. Lucklum, S. Roesler, P. Hauptmann, B. Adler, E. Dalcanale, Supramolecular interactions on mass sensitive sensors in gas phases and liquids, in: *Int. Conf. Solid-State Sensors Actuators, Eurosensors IX, Proc., IEEE, Inst fuer Automation und, Kommunikation Magdeburg, Magdeburg-Barleben, Germany, 1995*: pp. 747-750. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-0029493160&partnerID=40&md5=61caa0b197d827480584508ee95502e0>.
- [209] A. Arcioni, R. Tarroni, C. Zannoni, E. Dalcanale, A. Du Vosel, Microscopic heterogeneity in a bowlic columnar mesophase as probed with fluorescence depolarization measurements, *J. Phys. Chem.* 99 (1995) 15981-15986. <https://doi.org/10.1021/j100043a043>.
- [210] M. Vincenti, E. Dalcanale, Host-guest complexation in the gas phase. Investigation of the mechanism of interaction between cavitands and neutral guest molecules, *J. Chem. Soc. Perkin Trans. 2* (1995) 1069-1076. <https://doi.org/10.1039/p29950001069>.
- [211] T. Lippmann, E. Dalcanale, G. Mann, Synthesis and configurational analysis of phosphorus bridged cavitands, *Tetrahedron Lett.* 35 (1994) 1685-1688. [https://doi.org/10.1016/0040-4039\(94\)88319-X](https://doi.org/10.1016/0040-4039(94)88319-X).
- [212] M. Riccò, E. Dalcanale, Molecular conformation and magnetic behavior of macrocyclic columnar liquid crystals, *J. Phys. Chem.* 98 (1994) 9002-9008. <https://doi.org/10.1021/j100087a031>.
- [213] M. Ricco, L. Cristofolini, G. Viola, E. Dalcanale, Qens and NMR investigation of reorientational dynamics in C₆H₂, *J. Phys. Chem. Solids* 54 (1993) 1487-1490. [https://doi.org/10.1016/0022-3697\(93\)90339-S](https://doi.org/10.1016/0022-3697(93)90339-S).
- [214] M. Vincenti, E. Pelizzetti, E. Dalcanale, P. Soncini, Molecular recognition in the gas phase, *Pure Appl. Chem.* 65 (1993) 1507-1512. <https://doi.org/10.1351/pac199365071507>.
- [215] P. Nelli, E. Dalcanale, G. Faglia, G. Sberveglieri, P. Soncini, Cavitands as selective materials for QMB sensors for nitrobenzene and other aromatic vapours, *Sensors Actuators B. Chem.* 13 (1993) 302-304. [https://doi.org/10.1016/0925-4005\(93\)85386-0](https://doi.org/10.1016/0925-4005(93)85386-0).

- [216] S. Bonsignore, A. Du Vosel, G. Guglielmetti, E. Dalcanale, F. Ugozzoli, Influence of steric interactions and random side chain variations on the mesomorphic properties of bowl-like mesogens, *Liq. Cryst.* 13 (1993) 471-482. <https://doi.org/10.1080/02678299308026320>.
- [217] E. Dalcanale, G. Costantini, P. Soncini, Removal of organic pollutants from water via molecular inclusion within a cavitand, *J. Incl. Phenom. Mol. Recognit. Chem.* 13 (1992) 87-92. <https://doi.org/10.1007/BF01076673>.
- [218] E. Dalcanale, Z. An, L.P. Battaglia, M. Catellani, G.P. Chiusoli, Palladium-catalyzed norbornene-carbon monoxide co-oligomerization initiated by aryl groups and terminated by double bond formation, *J. Organomet. Chem.* 437 (1992) 375-388. [https://doi.org/10.1016/0022-328X\(92\)85082-8](https://doi.org/10.1016/0022-328X(92)85082-8).
- [219] P. Soncini, S. Bonsignore, E. Dalcanale, F. Ugozzoli, Cavitands as Versatile Molecular Receptors, *J. Org. Chem.* 57 (1992) 4608-4612. <https://doi.org/10.1021/jo00043a015>.
- [220] E. Dalcanale, C. Arena, M. Catellani, G.P. Chiusoli, Mesogenic aromatic esters with sulphur containing alkyl chains, *Liq. Cryst.* 12 (1992) 905-912. <https://doi.org/10.1080/02678299208032806>.
- [221] G. Cometti, E. Dalcanale, A.D. Vosel, A.-M. Levelut, A new, conformationally mobile macrocyclic core for bowl-shaped columnar liquid crystals, *Liq. Cryst.* 11 (1992) 93-100. <https://doi.org/10.1080/02678299208028973>.
- [222] J.R. Moran, J.L. Ericson, E. Dalcanale, J.A. Bryant, C.B. Knobler, D.J. Cram, Vases and Kites as Cavitands, *J. Am. Chem. Soc.* 113 (1991) 5707-5714. <https://doi.org/10.1021/ja00015a026>.
- [223] L. Abis, V. Arrighi, C. Cometti, E. Dalcanale, A. Du Vosel, Deuterium NMR investigation of a new class of macrocyclic columnar liquid crystal, *Liq. Cryst.* 9 (1991) 277-284. <https://doi.org/10.1080/02678299108035505>.
- [224] E. Dalcanale, A.D. Vosel, A.M. Levelut, J. Malthéte, Columnar mesomorphic properties of new macrocyclic mesogens, *Liq. Cryst.* 10 (1991) 185-198. <https://doi.org/10.1080/02678299108036424>.
- [225] S. Bonsignore, G. Cometti, E. Dalcanale, A. Du Vosel, New columnar liquid crystals correlation between molecular structure and mesomorphic behaviour, *Liq. Cryst.* 8 (1990) 639-649. <https://doi.org/10.1080/02678299008047377>.
- [226] M. Vincenti, E. Dalcanale, P. Soncini, G. Guglielmetti, Host-Guest Complexation in the Gas Phase by Desorption Chemical Ionization Mass Spectrometry, *J. Am. Chem. Soc.* 112 (1990) 445-447. <https://doi.org/10.1021/ja00157a068>.
- [227] G. Cometti, E. Dalcanale, A. Du Vosel, A. Levelut, New bowl-shaped columnar liquid crystals, *J. Chem. Soc. Chem. Commun.* (1990) 163-165. <https://doi.org/10.1039/C39900000163>.
- [228] L. Abis, E. Dalcanale, A. Du Vosel, S. Spera, Nuclear magnetic resonance elucidation of ring-inversion processes in macrocyclic octaols, *J. Chem. Soc. Perkin Trans. 2* (1990) 2075-2080. <https://doi.org/10.1039/p29900002075>.
- [229] L.M. Tunstad, J.C. Sherman, R.C. Helgeson, J. Weiser, C.B. Knobler, D.J. Cram, J.A. Bryant, E. Dalcanale, J.A. Tucker, Host-Guest Complexation. 48. Octol Building Blocks for Cavitands and Carcerands, *J. Org. Chem.* 54 (1989) 1305-1312. <https://doi.org/10.1021/jo00267a015>.
- [230] G. Guglielmetti, E. Dalcanale, S. Bonsignore, M. Vincenti, K.L. Busch, Characterization of high molecular weight macrocycles by desorption chemical ionization mass spectrometry, *Rapid Commun. Mass Spectrom.* 3 (1989) 106-109. <https://doi.org/10.1002/rcm.1290030405>.
- [231] E. Dalcanale, P. Soncini, G. Bacchilega, F. Ugozzoli, Selective complexation of neutral molecules in organic solvents. Host-guest complexes and cavities between cavitands and aromatic compounds, *J. Chem. Soc. Chem. Commun.* (1989) 500-502. <https://doi.org/10.1039/C39890000500>.
- [232] S. Bonsignore, E. Dalcanale, T. Martinengo, A new facile synthesis of 2-Alkylcyclopent-2-Enones, *Synth. Commun.* 18 (1988) 2241-2249. <https://doi.org/10.1080/00397918808082366>.
- [233] L. Abis, E. Dalcanale, A. Du vosel, S. Sperala, Structurally New Macrocycles from the Resorcinol-Aldehyde Condensation. Configurational and Conformational Analyses by Means of Dynamic NMR, NOE, and T1 Experiments, *J. Org. Chem.* 53 (1988) 5475-5479. <https://doi.org/10.1021/jo00258a015>.
- [234] E. Dalcanale, F. Montanari, Selective Oxidation of Aldehydes to Carboxylic Acids with Sodium Chlorite-Hydrogen Peroxide, *J. Org. Chem.* 51 (1986) 567-569. <https://doi.org/10.1021/jo00354a037>.
- [235] E. Dalcanale, M. Foà, A new synthesis of 2-(6-methoxycarbonylhexyl)-cyclopent-2-en-1-one, *Synth.* 1986 (1986) 492-494. <https://doi.org/10.1055/s-1986-31686>.
- [236] V. Cerè, E. Dalcanale, C. Paolucci, S. Pollicino, E. Sandri, L. Lunazzi, A. Fava, Synthesis of (E,E)-Thiacyclodeca-4,7-diene and of Its 3-Methyl Derivative from d-Mannitol. Stereochemical and Conformational Behavior, *J. Org. Chem.* 47 (1982) 3540-3544. <https://doi.org/10.1021/jo00139a031>.