

Franck Meyer

List of Publications by Year in descending order

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86
papers

5,186
citations

126907

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docs citations

93
times ranked

5530
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Halogen Bonding in Supramolecular Chemistry. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6114-6127. | 13.8 | 1,446 |
| 2 | Surface-initiated controlled polymerization as a convenient method for designing functional polymer brushes: From self-assembled monolayers to patterned surfaces. <i>Progress in Polymer Science</i> , 2012, 37, 157-181. | 24.7 | 224 |
| 3 | Halogen bonding at work: recent applications in synthetic chemistry and materials science. <i>CrystEngComm</i> , 2013, 15, 3058-3071. | 2.6 | 217 |
| 4 | Halogen bonding in polymer science: from crystal engineering to functional supramolecular polymers and materials. <i>Polymer Chemistry</i> , 2015, 6, 3559-3580. | 3.9 | 213 |
| 5 | Engineering functional materials by halogen bonding. <i>Journal of Polymer Science Part A</i> , 2007, 45, 1-15. | 2.3 | 212 |
| 6 | Trifluoromethyl nitrogen heterocycles: synthetic aspects and potential biological targets. <i>Chemical Communications</i> , 2016, 52, 3077-3094. | 4.1 | 133 |
| 7 | Highly Interpenetrated Supramolecular Networks Supported by Nâ€¦â€¦â€¦I Halogen Bonding. <i>Chemistry - A European Journal</i> , 2007, 13, 5765-5772. | 3.3 | 124 |
| 8 | Structureâ€“Function Relationships in Liquidâ€“Crystalline Halogenâ€“Bonded Complexes. <i>Chemistry - A European Journal</i> , 2010, 16, 9511-9524. | 3.3 | 117 |
| 9 | Mesogenic, trimeric, halogen-bonded complexes from alkoxy stilbazoles and 1,4-diodotetrafluorobenzene. <i>New Journal of Chemistry</i> , 2008, 32, 477-482. | 2.8 | 114 |
| 10 | Design of Crossâ€“Linked Semicrystalline Poly(Îµ-caprolactone)â€“Based Networks with Oneâ€“Way and Twoâ€“Way Shapeâ€“Memory Properties through Dielsâ€“Alder Reactions. <i>Chemistry - A European Journal</i> , 2011, 17, 10135-10143. | 3.3 | 114 |
| 11 | Fluorinated conjugated polymers in organic bulk heterojunction photovoltaic solar cells. <i>Progress in Polymer Science</i> , 2015, 47, 70-91. | 24.7 | 114 |
| 12 | Tuning second-order NLO responses through halogen bonding. <i>Chemical Communications</i> , 2007, , 2590. | 4.1 | 110 |
| 13 | Mutual induced coordination in halogen-bonded anionic assemblies with (6,3) cation-templated topologies. <i>Chemical Communications</i> , 2008, , 1635. | 4.1 | 100 |
| 14 | Metric engineering of supramolecular Borromean rings. <i>Chemical Communications</i> , 2006, , 1819. | 4.1 | 93 |
| 15 | Halogen bonding for molecular recognition: new developments in materials and biological sciences. <i>Chemical Communications</i> , 2020, 56, 4970-4981. | 4.1 | 90 |
| 16 | Crystal engineering of brominated tectons: N-methyl-3,5-dibromo-pyridinium iodide gives particularly short Câ€“Brâ€“I halogen bonding. <i>New Journal of Chemistry</i> , 2004, 28, 760-763. | 2.8 | 75 |
| 17 | Controlled room temperature ROP of L-lactide by ICl ₃ : a simple halogen-bonding catalyst. <i>Polymer Chemistry</i> , 2010, 1, 434-437. | 3.9 | 72 |
| 18 | Self-Complementary Nonlinear Optical-Phores Targeted to Halogen Bond-Driven Self-Assembly of Electro-Optic Materials. <i>Crystal Growth and Design</i> , 2011, 11, 5642-5648. | 3.0 | 67 |

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|----|---|-----|-----------|
| 19 | Solid state synthesis under supramolecular control of a 2D heterotetrotopic self-complementary tecton tailored to halogen bonding. <i>New Journal of Chemistry</i> , 2006, 30, 1397. | 2.8 | 65 |
| 20 | Stereoselective Barbier-Type Allylation Reaction of Trifluoromethyl Aldimines. <i>Journal of Organic Chemistry</i> , 2003, 68, 6444-6446. | 3.2 | 61 |
| 21 | Halide anions driven self-assembly of haloperfluoroarenes: Formation of one-dimensional non-covalent copolymers. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 1171-1177. | 1.7 | 60 |
| 22 | Ionic IPNs as novel candidates for highly conductive solid polymer electrolytes. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4245-4266. | 2.3 | 56 |
| 23 | Dendrimeric Tectons in Halogen Bonding-Based Crystal Engineering. <i>Crystal Growth and Design</i> , 2008, 8, 654-659. | 3.0 | 54 |
| 24 | Binding Energies and ¹⁹ F Nuclear Magnetic Deshielding in Paramagnetic Halogen-Bonded Complexes of TEMPO with Haloperfluorocarbons. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9911-9918. | 2.5 | 46 |
| 25 | Synthesis and Supramolecular Organization of Regioregular Polythiophene Block Oligomers. <i>Journal of Organic Chemistry</i> , 2010, 75, 1561-1568. | 3.2 | 43 |
| 26 | Poly(amino-methacrylate) as versatile agent for carbon nanotube dispersion: an experimental, theoretical and application study. <i>Journal of Materials Chemistry</i> , 2010, 20, 6873. | 6.7 | 41 |
| 27 | NMR enantiodifferentiation of triphenylphosphonium salts by chiral hexacoordinated phosphate anions. <i>Tetrahedron Letters</i> , 2003, 44, 2467-2471. | 1.4 | 37 |
| 28 | Hybrid Calixarene/Inorganic Salt/Diiodoperfluorocarbon Supramolecular Assemblies. <i>Supramolecular Chemistry</i> , 2006, 18, 235-243. | 1.2 | 36 |
| 29 | Synthesis, polymerization and conducting properties of an ionic liquid-type anionic monomer. <i>Tetrahedron Letters</i> , 2009, 50, 128-131. | 1.4 | 35 |
| 30 | Thermal degradation of poly(L-lactide): Accelerating effect of residual DBU-based organic catalysts. <i>Polymer Degradation and Stability</i> , 2011, 96, 739-744. | 5.8 | 35 |
| 31 | Halogen bonded Borromean networks by design: topology invariance and metric tuning in a library of multi-component systems. <i>Chemical Science</i> , 2017, 8, 1801-1810. | 7.4 | 35 |
| 32 | Imidazolium end-functionalized poly(L-lactide) for efficient carbon nanotube dispersion. <i>Chemical Communications</i> , 2010, 46, 5527. | 4.1 | 34 |
| 33 | Discovery of Novel Potent Reversible and Irreversible Myeloperoxidase Inhibitors Using Virtual Screening Procedure. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6563-6586. | 6.4 | 34 |
| 34 | A One-Pot Synthesis of Doubly Unsaturated Trifluoromethyl Amines: Easy Access to CF ₃ -Substituted Piperidines. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1258-1265. | 2.4 | 32 |
| 35 | Halogen-bonded and interpenetrated networks through the self-assembly of diiodoperfluoroarene and tetraprydil tectons. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1218-1224. | 1.7 | 29 |
| 36 | Poly(ethylene oxide)- <i>b</i> -poly(L-lactide) Diblock Copolymer/Carbon Nanotube-Based Nanocomposites: LiCl as Supramolecular Structure-Directing Agent. <i>Biomacromolecules</i> , 2011, 12, 4086-4094. | 5.4 | 29 |

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|----|--|-----|-----------|
| 37 | Ceramide, cerebroside and triterpenoid saponin from the bark of aerial roots of <i>Ficus elastica</i> (Moraceae). <i>Phytochemistry</i> , 2012, 83, 95-103. | 2.9 | 28 |
| 38 | Magnetic Poly(vinylpyridine)-Coated Carbon Nanotubes: An Efficient Supramolecular Tool for Wastewater Purification. <i>ChemSusChem</i> , 2013, 6, 367-373. | 6.8 | 27 |
| 39 | Biological activities of plant extracts from <i>Ficus elastica</i> and <i>Selaginella vogelli</i> : An antimalarial, antitypanosomal and cytotoxicity evaluation. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 117-122. | 3.8 | 26 |
| 40 | Triple-stimuli responsive polymers with fine tuneable magnetic responses. <i>Polymer Chemistry</i> , 2017, 8, 2450-2456. | 3.9 | 25 |
| 41 | <i>In vitro</i> antimicrobial and anti-proliferative activities of plant extracts from <i>Spathodea campanulata</i> , <i>Ficus bubu</i> , and <i>Carica papaya</i> . <i>Pharmaceutical Biology</i> , 2016, 54, 1086-1095. | 2.9 | 24 |
| 42 | Supramolecular design of high-performance poly(L-lactide)/carbon nanotube nanocomposites: from melt-processing to rheological, morphological and electrical properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 16190. | 6.7 | 23 |
| 43 | Poly(lactide) stereocomplex crystallization prompted by multiwall carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4327-4337. | 2.6 | 23 |
| 44 | Interplay between Halogen Bonding and Lone Pair-π Interactions: A Computational and Crystal Packing Study. <i>ChemPlusChem</i> , 2014, 79, 552-558. | 2.8 | 23 |
| 45 | Halogen bonding in a multi-connected 1,2,2-triiodo-alkene involving geminal and/or vicinal iodines: a crystallographic and DFT study. <i>CrystEngComm</i> , 2016, 18, 683-690. | 2.6 | 23 |
| 46 | A novel phosphorus-carbon bond formation by ring opening with diethyl phosphite of oxazolines derived from serine. <i>Tetrahedron</i> , 2004, 60, 3593-3597. | 1.9 | 20 |
| 47 | Interplay between poly(ethylene oxide) and poly(L-lactide) blocks during diblock copolymer crystallization. <i>CrystEngComm</i> , 2016, 18, 3635-3649. | 2.6 | 19 |
| 48 | From Dynamic Combinatorial Chemistry to in Vivo Evaluation of Reversible and Irreversible Myeloperoxidase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 206-210. | 2.8 | 19 |
| 49 | Cyclotriphosphazene [N ₃ P ₃ (2,2-dioxybiphenyl) ₂ (4-pyridinoxy) ₂] and its halogen bonded complex with 1,4-diiodotetrafluorobenzene. <i>CrystEngComm</i> , 2005, 7, 511. | 2.6 | 17 |
| 50 | High-resolution structure of a papaya plant-defence barwin-like protein solved by in-house sulfur-SAD phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 2017-2026. | 2.5 | 16 |
| 51 | Pyrene-end-functionalized poly(L-lactide) as an efficient carbon nanotube dispersing agent in poly(L-lactide): mechanical performance and biocompatibility study. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 045003. | 3.3 | 15 |
| 52 | Triphenylphosphonium salts bearing an L-alanyl substituent: short synthesis and enantiomeric analysis by NMR. <i>Tetrahedron Letters</i> , 2001, 42, 3981-3984. | 1.4 | 14 |
| 53 | 4,4'-Bipyridine-2,4,5,6-tetrafluoro-1,3-diiodobenzene (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o4243-o4243. | 0.2 | 14 |
| 54 | Efficient synthesis of β^2 -halogeno protected L-alanines and their β^2 -phosphonium derivatives. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 2229-2238. | 1.8 | 13 |

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|----|--|-----|-----------|
| 55 | Reversible positioning at submicrometre scale of carbon nanotubes mediated by pH-sensitive poly(amino-methacrylate) patterns. <i>Chemical Communications</i> , 2011, 47, 1163-1165. | 4.1 | 13 |
| 56 | Synthesis of Clicked Imidazolium-Containing Biosourced Copolymers and Application in Carbon Nanotube Dispersion. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1960-1964. | 3.9 | 13 |
| 57 | Identification of compounds with anti-proliferative activity from the wood of <i>Ficus elastica</i> Roxb. ex Hornem. aerial roots. <i>FÄ-toterapÄ-Äç</i> , 2016, 112, 65-73. | 2.2 | 13 |
| 58 | A comprehensive analysis of the protein-ligand interactions in crystal structures of <i>Mycobacterium tuberculosis</i> EthR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 248-258. | 2.3 | 11 |
| 59 | Characterization of chemical features of potent myeloperoxidase inhibitors. <i>Future Medicinal Chemistry</i> , 2016, 8, 1163-1177. | 2.3 | 10 |
| 60 | Structural analysis of the interaction between spiroisoxazoline SMART-420 and the <i>Mycobacterium tuberculosis</i> repressor EthR2. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 403-408. | 2.1 | 9 |
| 61 | In vitro antimicrobial activity of the methanol extract and compounds from the wood of <i>Ficus elastica</i> Roxb. ex Hornem. aerial roots. <i>South African Journal of Botany</i> , 2017, 111, 302-306. | 2.5 | 9 |
| 62 | Haloperfluorocarbons: Versatile Tectons in Halogen Bonding Based Crystal Engineering. <i>ACS Symposium Series</i> , 2005, , 514-542. | 0.5 | 8 |
| 63 | Synthesis of $\hat{\pm}$ -CF ₃ azanorbornene and azetidines by aza Diels-Alder or iodine-mediated cyclizations: application in ROMP and ligand design. <i>Tetrahedron Letters</i> , 2014, 55, 6339-6342. | 1.4 | 8 |
| 64 | Thermoplastic polyurethanes for biomedical application: A synthetic, mechanical, antibacterial, and cytotoxic study. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51666. | 2.6 | 8 |
| 65 | Imidazolium End-Functionalized ATRP Polymers as Directing Agents for CNT Dispersion and Confinement. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1259-1265. | 2.2 | 7 |
| 66 | Crystal packing and theoretical analysis of halogen- and hydrogen-bonded hydrazones from pharmaceuticals. Evidence of type I and II halogen bonds in extended chains of dichloromethane. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018, 74, 618-627. | 1.1 | 7 |
| 67 | Voatriafricanines A and B, Trimeric Vobasine-Aspidosperma-Aspidosperma Alkaloids from <i>Voacanga africana</i> . <i>Journal of Natural Products</i> , 2021, 84, 2755-2761. | 3.0 | 7 |
| 68 | In Vitro Evaluation of Antimicrobial and Antiproliferative Activities for Compounds Isolated from the <i>Ficus Bubu</i> Warb. (Moraceae) Fruits: Chemotaxonomic Significance. <i>Drug Delivery Letters</i> , 2015, 5, 122-131. | 0.5 | 6 |
| 69 | Tilted fiber Bragg gratings as a new sensing device for in situ and real time monitoring of surface-initiated polymerization. <i>Polymer Chemistry</i> , 2014, 5, 2506. | 3.9 | 5 |
| 70 | Synthesis, structure and anticancer properties of new biotin- and morpholine-functionalized ruthenium and osmium half-sandwich complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2021, 26, 535-549. | 2.6 | 5 |
| 71 | Antiproliferative activity of a new xanthone derivative from leaves of <i>Garcinia nobilis</i> Engl.. <i>Natural Product Research</i> , 2021, 35, 5604-5611. | 1.8 | 4 |
| 72 | Pyrovobasine, hybrid alkylated pyrrolidine monoterpene indole alkaloid pseudodimer discovered using a combination of mass spectral and NMR-based machine learning annotations. <i>Organic and Biomolecular Chemistry</i> , 2021, 20, 98-105. | 2.8 | 4 |

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|----|---|-----|-----------|
| 73 | Synthesis of binary-patterned brushes by combining atom transfer radical polymerization and ring-opening polymerization. <i>E-Polymers</i> , 2013, 13, . | 3.0 | 3 |
| 74 | Compound isolation and biological activities of <i>Piptadeniastrum africanum</i> (hook.f.) Brennan roots. <i>Journal of Ethnopharmacology</i> , 2020, 255, 112716. | 4.1 | 3 |
| 75 | (<i>E</i>)-3-(2,3,4,5,6-Pentafluorostyryl)thiophene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o896-o897. | 0.2 | 3 |
| 76 | Stimuli Responsive Materials Supported by Orthogonal Hydrogen and Halogen Bonding or I ² -Alkene Interaction. <i>Molecules</i> , 2021, 26, 7586. | 3.8 | 2 |
| 77 | 2-(2,3,5,6-Tetrafluoro-4-iodoanilino)ethanol. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o211-o211. | 0.2 | 1 |
| 78 | The 1:1 co-crystal of triphenyl(2,3,5,6-tetrafluorobenzyl)phosphonium bromide and 1,1,2,2-tetrafluoro-1,2-diiodoethane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o9-o10. | 0.2 | 1 |
| 79 | Connectivity and Topology Invariance in Self-Assembled and Halogen-Bonded Anionic (6,3)-Networks. <i>Molecules</i> , 2017, 22, 2060. | 3.8 | 1 |
| 80 | Self-assembled ruthenium and osmium nanosystems display potent anticancer profile by interfering with metabolic activity. <i>Inorganic Chemistry Frontiers</i> , 0, , . | 6.0 | 1 |
| 81 | Efficient Synthesis of I ² -Halogeno Protected L-Alanines and Their I ² -Phosphonium Derivatives.. <i>ChemInform</i> , 2003, 34, no. | 0.0 | 0 |
| 82 | Stereoselective Barbier-Type Allylation Reaction of Trifluoromethyl Aldimines.. <i>ChemInform</i> , 2003, 34, no. | 0.0 | 0 |
| 83 | A One-Pot Synthesis of Doubly Unsaturated Trifluoromethyl Amines: Easy Access to CF ₃ -Substituted Piperidines.. <i>ChemInform</i> , 2005, 36, no. | 0.0 | 0 |
| 84 | Cover Image, Volume 139, Issue 4. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51760. | 2.6 | 0 |
| 85 | Halogen bonding-based crystal engineering: from Borromean links to homochiral double helices. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2006, 62, s218-s218. | 0.3 | 0 |
| 86 | Supramolecular anion coordination networks with (6.3) cation-templated topologies. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008, 64, C489-C489. | 0.3 | 0 |