

Gabriella Cavallo

List of Publications by Year in descending order

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70
papers

6,632
citations

201575

27
h-index

102432

66
g-index

74
all docs

74
docs citations

74
times ranked

7019
citing authors

#	ARTICLE	IF	CITATIONS
1	The Halogen Bond. <i>Chemical Reviews</i> , 2016, 116, 2478-2601.	23.0	2,906
2	The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances. <i>Accounts of Chemical Research</i> , 2013, 46, 2686-2695.	7.6	728
3	Halogen bonding: a general route in anion recognition and coordination. <i>Chemical Society Reviews</i> , 2010, 39, 3772.	18.7	443
4	¹⁹ F Magnetic Resonance Imaging (MRI): From Design of Materials to Clinical Applications. <i>Chemical Reviews</i> , 2015, 115, 1106-1129.	23.0	401
5	Naming Interactions from the Electrophilic Site. <i>Crystal Growth and Design</i> , 2014, 14, 2697-2702.	1.4	190
6	Halogen Bonding versus Hydrogen Bonding in Driving Self-Assembly and Performance of Light-Responsive Supramolecular Polymers. <i>Advanced Functional Materials</i> , 2012, 22, 2572-2579.	7.8	178
7	A Superfluorinated Molecular Probe for Highly Sensitive <i>in Vivo</i> ¹⁹ F-MRI. <i>Journal of the American Chemical Society</i> , 2014, 136, 8524-8527.	6.6	113
8	Halogen Bonding and Pharmaceutical Cocrystals: The Case of a Widely Used Preservative. <i>Molecular Pharmaceutics</i> , 2013, 10, 1760-1772.	2.3	99
9	Dimensional encapsulation of I ₂ in an organic salt crystal matrix. <i>Chemical Communications</i> , 2010, 46, 2724.	2.2	89
10	Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning. <i>Journal of Materials Chemistry C</i> , 2015, 3, 759-768.	2.7	87
11	Synthesis of λ^5 -diimine V(III) complexes and their role as ethylene polymerisation catalysts. <i>Dalton Transactions RSC</i> , 2002, , 1839-1846.	2.3	81
12	Photoalignment and Surface Relief Grating Formation are Efficiently Combined in Low-Molecular-Weight Halogen-Bonded Complexes. <i>Advanced Materials</i> , 2012, 24, OP345-52.	11.1	80
13	Halogen bonding in hypervalent iodine and bromine derivatives: halonium salts. <i>IUCrj</i> , 2017, 4, 411-419.	1.0	80
14	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.	1.4	67
15	Anisotropic ionic conductivity in fluorinated ionic liquid crystals suitable for optoelectronic applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6572.	5.2	64
16	Halide anions driven self-assembly of haloperfluoroarenes: Formation of one-dimensional non-covalent copolymers. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 1171-1177.	0.9	60
17	Halogen bond directionality translates tecton geometry into self-assembled architecture geometry. <i>CrystEngComm</i> , 2013, 15, 3102.	1.3	60
18	Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6300-6304.	7.2	56

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19	Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. <i>CheM</i> , 2017, 2, 417-426.	5.8	49
20	Halide anion-templated assembly of di- and triiodoperfluorobenzenes into 2D and 3D supramolecular networks. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1165-1172.	0.9	48
21	Polymorphs and co-crystals of haloprogin: an antifungal agent. <i>CrystEngComm</i> , 2014, 16, 5897-5904.	1.3	48
22	Orthogonal halogen and hydrogen bonds involving a peptide bond model. <i>CrystEngComm</i> , 2014, 16, 8102-8105.	1.3	47
23	Halogen Bonding in Hypervalent Iodine Compounds. <i>Topics in Current Chemistry</i> , 2016, 373, 289-309.	4.0	46
24	Halogen Bonding in Perovskite Solar Cells: A New Tool for Improving Solar Energy Conversion. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	45
25	Multinuclear Solidâ€State Magnetic Resonance as a Sensitive Probe of Structural Changes upon the Occurrence of Halogen Bonding in Coâ€Crystals. <i>Chemistry - A European Journal</i> , 2013, 19, 11949-11962.	1.7	41
26	Comparing the Halogen Bond to the Hydrogen Bond by Solidâ€State NMR Spectroscopy: Anion Coordinated Dimers from 2â€and 3â€Iodoethynylpyridine Salts. <i>Chemistry - A European Journal</i> , 2018, 24, 11364-11376.	1.7	35
27	A Short-Chain Multibranch Perfluoroalkyl Thiol for More Sustainable Hydrophobic Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9734-9743.	3.2	34
28	Crystal Structure of the DFNKF Segment of Human Calcitonin Unveils Aromatic Interactions between Phenylalanines. <i>Chemistry - A European Journal</i> , 2017, 23, 2051-2058.	1.7	28
29	The Role of Buildingâ€Block Metrics in the Halogenâ€Bondingâ€Driven Selfâ€Assembly of Calixarenes, Inorganic Salts and Diiodoperfluoroalkanes. <i>Chemistry - A European Journal</i> , 2009, 15, 7903-7912.	1.7	27
30	Halogen-Bonded Photoresponsive Materials. <i>Topics in Current Chemistry</i> , 2014, 359, 147-166.	4.0	25
31	Fluorine-induced J-aggregation enhances emissive properties of a new NLO pushâ€pull chromophore. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5275.	2.7	25
32	Hydrophobin: fluorosurfactant-like properties without fluorine. <i>Soft Matter</i> , 2013, 9, 6505.	1.2	24
33	In the Pursuit of Efficient Anion-Binding Organic Ligands Based on Halogen Bonding. <i>Crystal Growth and Design</i> , 2013, 13, 871-877.	1.4	24
34	Photoresponsive ionic liquid crystals assembled via halogen bond: en route towards light-controllable ion transporters. <i>Faraday Discussions</i> , 2017, 203, 407-422.	1.6	23
35	Halogen-bond driven self-assembly of triangular macrocycles. <i>New Journal of Chemistry</i> , 2018, 42, 10467-10471.	1.4	22
36	Synthesis and thermotropic properties of new green electrochromic ionic liquid crystals. <i>New Journal of Chemistry</i> , 2019, 43, 18285-18293.	1.4	22

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37	Azobenzene-based difunctional halogen-bond donor: towards the engineering of photoresponsive co-crystals. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 149-156.	0.5	21
38	Hydrophobin as a Nanolayer Primer That Enables the Fluorinated Coating of Poorly Reactive Polymer Surfaces. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500170.	1.9	17
39	Structural characterization of new fluorinated mesogens obtained through halogen-bond driven self-assembly. <i>Journal of Fluorine Chemistry</i> , 2017, 198, 54-60.	0.9	16
40	Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions. <i>Angewandte Chemie</i> , 2016, 128, 6408-6412.	1.6	15
41	Halogen Bond: A Long Overlooked Interaction. <i>Topics in Current Chemistry</i> , 2014, 358, 1-17.	4.0	14
42	Triple bulk heterojunctions as means for recovering the microstructure of photoactive layers in organic solar cell devices. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 37-47.	3.0	14
43	Janus-Type Dendrimers Based on Highly Branched Fluorinated Chains with Tunable Self-Assembly and ¹⁹ F Nuclear Magnetic Resonance Properties. <i>Macromolecules</i> , 0, , .	2.2	13
44	Ethylene-1,2-cyclopentane random copolymers from cyclocopolymerization of ethylene/1,3-butadiene. <i>Polymer</i> , 2013, 54, 3767-3773.	1.8	12
45	The search for exceptions in the highly enantioselective titanium catalysed oxidation of aryl benzyl sulfides. <i>Tetrahedron</i> , 2015, 71, 4810-4816.	1.0	12
46	Waterproof-breathable films from multi-branched fluorinated cellulose esters. <i>Carbohydrate Polymers</i> , 2021, 271, 118031.	5.1	12
47	A synthetically modified hydrophobin showing enhanced fluorophilic affinity. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 140-147.	5.0	9
48	Halogen-Bonded supramolecular synthons: in situ cryocrystallisation of 1,2-dihalotetrafluoroethane/HMPA adducts. <i>Supramolecular Chemistry</i> , 2013, 25, 718-727.	1.5	8
49	Tuning of Ionic Liquid Crystal Properties by Combining Halogen Bonding and Fluorophilic Effect. <i>ChemPlusChem</i> , 2021, 86, 469-474.	1.3	8
50	Endocrine-disrupting pollutants properties affecting their bioactivity, remediation, and detection. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 30, 100485.	3.2	8
51	Thermal crosslinking of ethene copolymers containing 1,2-cyclopropane units. <i>Polymer</i> , 2005, 46, 2847-2853.	1.8	7
52	Cyclocopolymerization of 1,4-pentadiene with ethene in the presence of group-4 metallocenes. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5525-5532.	2.5	7
53	Polymeric fluorine-free electrolyte for application in DMFC. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 4653-4660.	3.8	7
54	Tetraphenylphosphonium iodide-1,3,5-trifluoro-2,4,6-triiodobenzene-methanol (3/4/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o865-o866.	0.2	5

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55	Synthesis and Linker-Controlled Self-Assembly of Dendritic Amphiphiles with Branched Fluorinated Tails. <i>Macromolecular Bioscience</i> , 2022, 22, .	2.1	5
56	Site-selective assembly between 1,8-diiodoperfluorooctane and 4,7,8,11-tetraazahelicene driven by halogen bonding. <i>Supramolecular Chemistry</i> , 2011, 23, 256-262.	1.5	4
57	(4,7,13,16,21,24-Hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane)sodium iodide-1,1,2,2-tetrafluoro-1,2-diiodoethane (2/3). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m387-m388.	0.2	4
58	Infrared spectra and thermal reactivity of ethene copolymers containing 1,2-cyclopropane units. <i>Polymer</i> , 2006, 47, 2274-2279.	1.8	3
59	Halogen Bonding in Perovskite Solar Cells: A New Tool for Improving Solar Energy Conversion. <i>Angewandte Chemie</i> , 0, , .	1.6	3
60	From Molecules to Materials: Engineering New Ionic Liquid Crystals Through Halogen Bonding. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	2
61	Dissecting the packing forces in mixed perfluorocarbon/aromatic co-crystals. <i>CrystEngComm</i> , 0, , .	1.3	2
62	[5,11,17,23-Tetra-tert-butyl-25,27-(3,6-dioxaocan-1,8-dioxy)-26,28-bis(pyridin-2-ylmethoxy)calix[4]arene]sodium iodide-1,2,4,5-tetrafluoro-3,6-diiodobenzene-methanol (2/3/4). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m236-m237.	0.2	2
63	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
64	One "Click"-access to self-complementary molecular modules for halogen bonding. <i>RSC Advances</i> , 2016, 6, 36723-36727.	1.7	1
65	Crystal Structure of the DFNKF Segment of Human Calcitonin Unveils Aromatic Interactions between Phenylalanines. <i>Chemistry - A European Journal</i> , 2017, 23, 1985-1985.	1.7	1
66	ISMCS2019: 14th International Symposium of Macrocyclic and Supramolecular Chemistry. <i>Supramolecular Chemistry</i> , 2020, 32, 163-164.	1.5	1
67	The halogen-bonded adduct 1,4-bis(pyridin-4-yl)buta-1,3-diyne-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluoro-1,8-diiodooctane (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o328-o329.	0.2	1
68	1,3-Bis(2,3,5,6-tetrafluoro-4-iodophenoxy)-2,2-bis[(2,3,5,6-tetrafluoro-4-iodophenoxy)methyl]propane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o579-o580.	0.2	1
69	Synthesis study of fluor-free membranes for DMFC applications. , 2007, , .		0
70	(Tris{2-[2-(2,3,5,6-tetrafluoro-4-iodophenoxy)ethoxy]ethyl}amine)potassium iodide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m284-m285.	0.2	0