Gabriella Cavallo

List of Publications by Year
in descending order

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70 papers	6,632 citations	201674 27 h-index	102487 66 g-index
74 all docs	74 docs citations	74 times ranked	7019 citing authors

#	Article	IF	Citations
1	Halogen Bonding in Perovskite Solar Cells: A New Tool for Improving Solar Energy Conversion. Angewandte Chemie - International Edition, 2022, 61, .	13.8	45
2	Synthesis and Linkerâ€Controlled Selfâ€Assembly of Dendritic Amphiphiles with Branched Fluorinated Tails. Macromolecular Bioscience, 2022, 22, .	4.1	5
3	Tuning of Ionic Liquid Crystal Properties by Combining Halogen Bonding and Fluorous Effect. ChemPlusChem, 2021, 86, 469-474.	2.8	8
4	Endocrine-disrupting pollutants properties affecting their bioactivity, remediation, and detection. Current Opinion in Green and Sustainable Chemistry, 2021, 30, 100485.	5.9	8
5	Waterproof-breathable films from multi-branched fluorinated cellulose esters. Carbohydrate Polymers, 2021, 271, 118031.	10.2	12
6	ISMSC2019: 14th International Symposium of Macrocyclic and Supramolecular Chemistry. Supramolecular Chemistry, 2020, 32, 163-164.	1.2	1
7	Synthesis and thermotropic properties of new green electrochromic ionic liquid crystals. New Journal of Chemistry, 2019, 43, 18285-18293.	2.8	22
8	Halogen-bond driven self-assembly of triangular macrocycles. New Journal of Chemistry, 2018, 42, 10467-10471.	2.8	22
9	From Molecules to Materials: Engineering New Ionic Liquid Crystals Through Halogen Bonding. Journal of Visualized Experiments, 2018, , .	0.3	2
10	Comparing the Halogen Bond to the Hydrogen Bond by Solidâ€State NMR Spectroscopy: Anion Coordinated Dimers from 2â€and 3â€Iodoethynylpyridine Salts. Chemistry - A European Journal, 2018, 24, 11364-11376.	3.3	35
11	A Short-Chain Multibranched Perfluoroalkyl Thiol for More Sustainable Hydrophobic Coatings. ACS Sustainable Chemistry and Engineering, 2018, 6, 9734-9743.	6.7	34
12	Structural characterization of new fluorinated mesogens obtained through halogen-bond driven self-assembly. Journal of Fluorine Chemistry, 2017, 198, 54-60.	1.7	16
13	Photoresponsive ionic liquid crystals assembled via halogen bond: en route towards light-controllable ion transporters. Faraday Discussions, 2017, 203, 407-422.	3.2	23
14	Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. CheM, 2017, 2, 417-426.	11.7	49
15	Crystal Structure of the DFNKF Segment of Human Calcitonin Unveils Aromatic Interactions between Phenylalanines. Chemistry - A European Journal, 2017, 23, 1985-1985.	3.3	1
16	Crystal Structure of the DFNKF Segment of Human Calcitonin Unveils Aromatic Interactions between Phenylalanines. Chemistry - A European Journal, 2017, 23, 2051-2058.	3.3	28
17	Halogen bonding in hypervalent iodine and bromine derivatives: halonium salts. IUCrJ, 2017, 4, 411-419.	2.2	80
18	Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogenâ€Bonded Anions. Angewandte Chemie, 2016, 128, 6408-6412.	2.0	15

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19	One â€œClickâ€•access to self-complementary molecular modules for halogen bonding. RSC Advances, 2016, 6, 36723-36727.	3.6	1
20	Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogenâ€Bonded Anions. Angewandte Chemie - International Edition, 2016, 55, 6300-6304.	13.8	56
21	The Halogen Bond. Chemical Reviews, 2016, 116, 2478-2601.	47.7	2,906
22	Halogen Bonding in Hypervalent Iodine Compounds. Topics in Current Chemistry, 2016, 373, 289-309.	4.0	46
23	Hydrophobin as a Nanolayer Primer That Enables the Fluorinated Coating of Poorly Reactive Polymer Surfaces. Advanced Materials Interfaces, 2015, 2, 1500170.	3.7	17
24	The search for exceptions in the highly enantioselective titanium catalysed oxidation of aryl benzyl sulfides. Tetrahedron, 2015, 71, 4810-4816.	1.9	12
25	Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning. Journal of Materials Chemistry C, 2015, 3, 759-768.	5.5	87
26	A synthetically modified hydrophobin showing enhanced fluorous affinity. Journal of Colloid and Interface Science, 2015, 448, 140-147.	9.4	9
27	¹⁹F Magnetic Resonance Imaging (MRI): From Design of Materials to Clinical Applications. Chemical Reviews, 2015, 115, 1106-1129.	47.7	401
28	Halogen Bond: A Long Overlooked Interaction. Topics in Current Chemistry, 2014, 358, 1-17.	4.0	14
29	Halogen-Bonded Photoresponsive Materials. Topics in Current Chemistry, 2014, 359, 147-166.	4.0	25
30	The 1:1 co-crystal of triphenyl(2,3,5,6-tetrafluorobenzyl)phosphonium bromide and 1,1,2,2-tetrafluoro-1,2-diiodoethane. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o9-o10.	0.2	1
31	Triple bulk heterojunctions as means for recovering the microstructure of photoactive layers in organic solar cell devices. Solar Energy Materials and Solar Cells, 2014, 120, 37-47.	6.2	14
32	Azobenzene-based difunctional halogen-bond donor: towards the engineering of photoresponsive co-crystals. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 149-156.	1.1	21
33	Orthogonal halogen and hydrogen bonds involving a peptide bond model. CrystEngComm, 2014, 16, 8102-8105.	2.6	47
34	Fluorine-induced J-aggregation enhances emissive properties of a new NLO pushâ€“pull chromophore. Journal of Materials Chemistry C, 2014, 2, 5275.	5.5	25
35	Polymorphs and co-crystals of haloprogin: an antifungal agent. CrystEngComm, 2014, 16, 5897-5904.	2.6	48
36	Naming Interactions from the Electrophilic Site. Crystal Growth and Design, 2014, 14, 2697-2702.	3.0	190

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37	A Superfluorinated Molecular Probe for Highly Sensitive in Vivo¹⁹F-MRI. Journal of the American Chemical Society, 2014, 136, 8524-8527.	13.7	113
38	Multinuclear Solidâ€State Magnetic Resonance as a Sensitive Probe of Structural Changes upon the Occurrence of Halogen Bonding in Coâ€crystals. Chemistry - A European Journal, 2013, 19, 11949-11962.	3.3	41
39	Câ€“halogenâ€¦O supramolecular synthons: in situ cryocrystallisation of 1,2-dihalotetrafluoroethane/HMPA adducts. Supramolecular Chemistry, 2013, 25, 718-727.	1.2	8
40	Hydrophobin: fluorosurfactant-like properties without fluorine. Soft Matter, 2013, 9, 6505.	2.7	24
41	In the Pursuit of Efficient Anion-Binding Organic Ligands Based on Halogen Bonding. Crystal Growth and Design, 2013, 13, 871-877.	3.0	24
42	Halogen bond directionality translates tecton geometry into self-assembled architecture geometry. CrystEngComm, 2013, 15, 3102.	2.6	60
43	Halogen Bonding and Pharmaceutical Cocrystals: The Case of a Widely Used Preservative. Molecular Pharmaceutics, 2013, 10, 1760-1772.	4.6	99
44	Ethylene-1,2-cyclopentane random copolymers from cyclocopolymerization of ethylene/1,3-butadiene. Polymer, 2013, 54, 3767-3773.	3.8	12
45	The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances. Accounts of Chemical Research, 2013, 46, 2686-2695.	15.6	728
46	Anisotropic ionic conductivity in fluorinated ionic liquid crystals suitable for optoelectronic applications. Journal of Materials Chemistry A, 2013, 1, 6572.	10.3	64
47	Tetraphenylphosphonium iodideâ€“1,3,5-trifluoro-2,4,6-triiodobenzeneâ€“methanol (3/4/1). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o865-o866.	0.2	5
48	The halogen-bonded adduct 1,4-bis(pyridin-4-yl)buta-1,3-diyneâ€“1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluoro-1,8-diiodooctane (1/1). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o328-o329.	0.2	1
49	1,3-Bis(2,3,5,6-tetrafluoro-4-iodophenoxy)-2,2-bis[(2,3,5,6-tetrafluoro-4-iodophenoxy)methyl]propane. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o579-o580.	0.2	1
50	[5,11,17,23-Tetra-tert-butyl-25,27-(3,6-dioxaoctan-1,8-dioxy)-26,28-bis(pyridin-2-ylmethoxy)calix[4]arene]sodium iodideâ€“1,2,4,5-tetrafluoro-3,6-diiodobenzeneâ€“methanol (2/3/4). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m236-m237.	0.2	2
51	(4,7,13,16,21,24-Hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane)sodium iodideâ€“1,1,2,2,tetrafluoro-1,2-diiodoethane (2/3). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m387-m388.	0.2	4
52	(Tris{2-[2-(2,3,5,6-tetrafluoro-4-iodophenoxy)ethoxy]ethyl}amine)potassium iodide. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m284-m285.	0.2	0
53	Photoalignment and Surfaceâ€Reliefâ€Grating Formation are Efficiently Combined in Lowâ€Molecularâ€Weight Halogenâ€Bonded Complexes. Advanced Materials, 2012, 24, OP345-52.	21.0	80
54	Halogen Bonding versus Hydrogen Bonding in Driving Selfâ€Assembly and Performance of Lightâ€Responsive Supramolecular Polymers. Advanced Functional Materials, 2012, 22, 2572-2579.	14.9	178

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55	Self-Complementary Nonlinear Optical-Phores Targeted to Halogen Bond-Driven Self-Assembly of Electro-Optic Materials. Crystal Growth and Design, 2011, 11, 5642-5648.	3.0	67
56	Site-selective assembly between 1,8-diiodoperfluorooctane and 4,7,8,11-tetraazahelicene driven by halogen bonding. Supramolecular Chemistry, 2011, 23, 256-262.	1.2	4
57	Halide anion-templated assembly of di- and triiodoperfluorobenzenes into 2D and 3D supramolecular networks. Journal of Fluorine Chemistry, 2010, 131, 1165-1172.	1.7	48
58	Halogen bonding: a general route in anion recognition and coordination. Chemical Society Reviews, 2010, 39, 3772.	38.1	443
59	Dimensional encapsulation of Iâ˜â‹¯I2â‹¯Iâ˜ in an organic salt crystal matrix. Chemical Communications, 2010, 46, 2724.	4.1	89
60	The Role of Buildingâ€Block Metrics in the Halogenâ€Bondingâ€Driven Selfâ€Assembly of Calixarenes, Inorganic Salts and Diiodoperfluoroalkanes. Chemistry - A European Journal, 2009, 15, 7903-7912.	3.3	27
61	Polymeric fluorine-free electrolyte for application in DMFC. International Journal of Hydrogen Energy, 2009, 34, 4653-4660.	7.1	7
62	Halide anions driven self-assembly of haloperfluoroarenes: Formation of one-dimensional non-covalent copolymers. Journal of Fluorine Chemistry, 2009, 130, 1171-1177.	1.7	60
63	Synthesis study of fluor-free membranes for DMFC applications. , 2007, , .		0
64	Cyclocopolymerization of 1,4-pentadiene with ethene in the presence of group-4 metallocenes. Journal of Polymer Science Part A, 2006, 44, 5525-5532.	2.3	7
65	Infrared spectra and thermal reactivity of ethene copolymers containing 1,2-cyclopropane units. Polymer, 2006, 47, 2274-2279.	3.8	3
66	Thermal crosslinking of ethene copolymers containing 1,2-cyclopropane units. Polymer, 2005, 46, 2847-2853.	3.8	7
67	Synthesis of Î±-diimine V(iii) complexes and their role as ethylene polymerisation catalysts. Dalton Transactions RSC, 2002, , 1839-1846.	2.3	81
68	Dissecting the packing forces in mixed perfluorocarbon/aromatic co-crystals. CrystEngComm, 0, , .	2.6	2
69	Halogen Bonding in Perovskite Solar Cells: A New Tool for Improving Solar Energy Conversion. Angewandte Chemie, 0, , .	2.0	3
70	Janus-Type Dendrimers Based on Highly Branched Fluorinated Chains with Tunable Self-Assembly and ¹⁹F Nuclear Magnetic Resonance Properties. Macromolecules, 0, , .	4.8	13