Tullio Pilati

List of Publications by Year
in descending order

74	11,381	76326 40	82547 72
papers	citations	h-index	g-index

79	79	79	7638
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Halogen Bond. Chemical Reviews, 2016, 116, 2478-2601.	47.7	2,906
2	Halogen Bonding Based Recognition Processes:â€‰ A World Parallel to Hydrogen Bonding. Accounts of Chemical Research, 2005, 38, 386-395.	15.6	1,781
3	Halogen Bonding in Supramolecular Chemistry. Angewandte Chemie - International Edition, 2008, 47, 6114-6127.	13.8	1,446
4	Halogen bonding: a general route in anion recognition and coordination. Chemical Society Reviews, 2010, 39, 3772.	38.1	443
5	Halogen Bonding and Ï€Â·Â·Â·Ï€ Stacking Control Reactivity in the Solid State. Journal of the American Chemical Society, 2004, 126, 4500-4501.	13.7	359
6	A Halogen-Bonding-Based Heteroditopic Receptor for Alkali Metal Halides. Journal of the American Chemical Society, 2005, 127, 14972-14973.	13.7	243
7	Fluorine-Centered Halogen Bonding: A Factor in Recognition Phenomena and Reactivity. Crystal Growth and Design, 2011, 11, 4238-4246.	3.0	225
8	The fluorine atom as a halogen bond donor, viz. a positive site. CrystEngComm, 2011, 13, 6593.	2.6	217
9	Engineering functional materials by halogen bonding. Journal of Polymer Science Part A, 2007, 45, 1-15.	2.3	212
10	Halogen Bonding in Crystal Engineering. , 2007, , 105-136.		180
11	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
12	Anion coordination and anion-templated assembly under halogen bonding control. CrystEngComm, 2009, 11, 1187.	2.6	158
13	Halogen bonding and other noncovalent interactions involving halogens: a terminology issue. CrystEngComm, 2006, 8, 946.	2.6	151
14	Nâ‹…â‹…â‹…Br Halogen Bonding: One-Dimensional Infinite Chains through the Self-Assembly of Dibromotetrafluorobenzenes with Dipyridyl Derivatives. Chemistry - A European Journal, 2003, 9, 3974-3983.	3.3	141
15	Highly Interpenetrated Supramolecular Networks Supported by Nâ‹…â‹…â‹…I Halogen Bonding. Chemistry - A European Journal, 2007, 13, 5765-5772.	3.3	124
16	Intermolecular recognition between hydrocarbon oxygen-donors and perfluorocarbon iodine-acceptors: the shortest Oâ‹¯I non-covalent bond. Tetrahedron, 2001, 57, 8543-8550.	1.9	118
17	Mutual induced coordination in halogen-bonded anionic assemblies with (6,3) cation-templated topologies. Chemical Communications, 2008, , 1635.	4.1	100
18	Combining halogen bonds and hydrogen bonds in the modular assembly of heteromeric infinite 1-D chains. Chemical Communications, 2007, , 4236.	4.1	96

#	Article	IF	Citations
19	Metric engineering of supramolecular Borromean rings. Chemical Communications, 2006, , 1819.	4.1	93
20	Dynamic Characterization of Crystalline Supramolecular Rotors Assembled through Halogen Bonding. Journal of the American Chemical Society, 2015, 137, 15386-15389.	13.7	88
21	Fluorous Interpenetrated Layers in a Three-Component Crystal Matrix. Crystal Growth and Design, 2003, 3, 355-361.	3.0	84
22	Halogen Bond Distance as a Function of Temperature. Crystal Growth and Design, 2004, 4, 291-295.	3.0	83
23	Crystal engineering of brominated tectons: N-methyl-3,5-dibromo-pyridinium iodide gives particularly short Câ€“Brâ‹¯I halogen bonding. New Journal of Chemistry, 2004, 28, 760-763.	2.8	75
24	Halogen bonding driven self-assembly of fluorocarbons and hydrocarbons. Current Opinion in Colloid and Interface Science, 2003, 8, 215-222.	7.4	70
25	Perfluorocarbon-hydrocarbons self-assembly: halogen bonding mediated intermolecular recognition. Journal of Fluorine Chemistry, 2004, 125, 271-281.	1.7	70
26	Metric engineering of perfluorocarbonâ€“hydrocarbon layered solids driven by the halogen bonding. Chemical Communications, 2004, , 1492-1493.	4.1	65
27	Solid state synthesis under supramolecular control of a 2D heterotetratopic self-complementary tecton tailored to halogen bonding. New Journal of Chemistry, 2006, 30, 1397.	2.8	65
28	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
29	Perfluorocarbonâ‹¯Hydrocarbon Self-Assembly:â€‰ First Crystalline Halogen-Bonded Complex Involving Bromoperfluoroalkanes. Crystal Growth and Design, 2003, 3, 799-803.	3.0	59
30	The quest for a molecular capsule assembled via halogen bonds. CrystEngComm, 2012, 14, 6366.	2.6	59
31	Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogenâ€Bonded Anions. Angewandte Chemie - International Edition, 2016, 55, 6300-6304.	13.8	56
32	Fluorination promotes chalcogen bonding in crystalline solids. CrystEngComm, 2017, 19, 4955-4959.	2.6	53
33	Dimensional caging of polyiodides: cation-templated synthesis using bipyridinium salts. CrystEngComm, 2011, 13, 4411.	2.6	50
34	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
35	Interplay between Structural and Dielectric Features of New Low k Hybrid Organicâ€“Organometallic Supramolecular Ribbons. Crystal Growth and Design, 2012, 12, 297-305.	3.0	48
36	Polymorphs and co-crystals of haloprogin: an antifungal agent. CrystEngComm, 2014, 16, 5897-5904.	2.6	48

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37	Design and Synthesis of New Tectons for Halogen Bonding-driven Crystal Engineering. Supramolecular Chemistry, 2003, 15, 177-188.	1.2	47
38	Perfluorocarbonâ€“hydrocarbon self-assembly. Part 16: Anilines as new electron donor modules for halogen bonded infinite chain formation. Tetrahedron, 2002, 58, 4023-4029.	1.9	45
39	Crown ethers as pre-organised exo-receptors in the divergent recognition of Î±,Ï‰-diiodoperfluoroalkanes. New Journal of Chemistry, 2000, 24, 777-780.	2.8	41
40	Halogen bonding driven self-assembly of (E)-1,2-diiodo-1,2-difluoroethene with nitrogen substituted hydrocarbons. Tetrahedron Letters, 2003, 44, 645-648.	1.4	40
41	Dipyridinocalixcrown/diiodoperfluorocarbon binary host systems for CsI: structural studies and fluorous phase extraction of caesium. Tetrahedron, 2007, 63, 4951-4958.	1.9	40
42	Supramolecular rods via halogen bonding-based self-assembly of fluorinated phosphazene nanopillars. Inorganica Chimica Acta, 2007, 360, 1191-1199.	2.4	40
43	Spontaneous resolution in a halogen bonded supramolecular architecture. Chemical Communications, 2005, , 1534.	4.1	38
44	Site-selective supramolecular synthesis of halogen-bonded cocrystals incorporating the photoactive azo group. CrystEngComm, 2008, 10, 1132.	2.6	38
45	Ion-pair separation via selective inclusion/segregation processes. CrystEngComm, 2009, 11, 1204.	2.6	38
46	Solid-state synthesis of mixed trihalides via reversible absorption of dihalogens by non porous onium salts. CrystEngComm, 2011, 13, 4427.	2.6	38
47	Hybrid Calixarene/Inorganic Salt/Diiodoperfluorocarbon Supramolecular Assemblies. Supramolecular Chemistry, 2006, 18, 235-243.	1.2	36
48	Halogen bonded Borromean networks by design: topology invariance and metric tuning in a library of multi-component systems. Chemical Science, 2017, 8, 1801-1810.	7.4	35
49	Tetrahedral Oxyanions in Halogen-Bonded Coordination Networks. Crystal Growth and Design, 2011, 11, 4220-4226.	3.0	34
50	Perfluorocarbon-Hydrocarbon Discrete Intermolecular Aggregates: An Exceptionally Short Nâ‹¯I Contact. Supramolecular Chemistry, 2002, 14, 47-55.	1.2	31
51	Hybrid iodoperfluoroalkane-ferrocene supramolecular arrays: the shortest contacts iodine forms with nitrogen atoms and unsaturated moieties. Journal of Fluorine Chemistry, 2004, 125, 629-640.	1.7	29
52	Halogen-bonded and interpenetrated networks through the self-assembly of diiodoperfluoroarene and tetrapyridyl tectons. Journal of Fluorine Chemistry, 2010, 131, 1218-1224.	1.7	29
53	Herringbone Infinite Networks Formed by Terpyridine and Haloperfluoroarene Modules. Supramolecular Chemistry, 2001, 12, 405-410.	1.2	25
54	Diastereoselective nitrilimine cycloaddition to the C˜...N bond of enantiopure 1,4-benzodiazepinones. Tetrahedron: Asymmetry, 2002, 13, 2491-2495.	1.8	25

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55	Stereoselective intramolecular cycloadditions of homochiral N-alkenoyl aryl azides. Tetrahedron: Asymmetry, 2001, 12, 1201-1206.	1.8	22
56	Picturing the induced fit of calix[5]arenes upon n-alkylammonium cation binding. CrystEngComm, 2012, 14, 2621.	2.6	22
57	Imidazoles and Pyrrolo[2,3-d]isoxazoles from Isoxazol-5(4H)-ones. Synthesis, 1991, 1991, 127-131.	2.3	21
58	Asymmetric induction by the (S)-1-phenylethyl group in intramolecular nitrile imine cycloadditions giving enantiopure 3,3a-dihydro-pyrazolo[1,5-a][1,4]benzodiazepine-4(6H)-ones. Tetrahedron: Asymmetry, 1999, 10, 4447-4454.	1.8	21
59	The disorder of perfluoroalkyl chains in crystals: Two case histories of interpretation and refinement. Journal of Fluorine Chemistry, 2009, 130, 816-823.	1.7	21
60	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
61	Pentaerythritol tetrakis(4-iodo-2,3,5,6-tetrafluorophenyl) ether: a tecton for the self-assembly of double strand 1D infinite chains. Journal of Fluorine Chemistry, 2005, 126, 197-207.	1.7	20
62	Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogenâ€Bonded Anions. Angewandte Chemie, 2016, 128, 6408-6412.	2.0	15
63	Halogen Bond: A Long Overlooked Interaction. Topics in Current Chemistry, 2014, 358, 1-17.	4.0	14
64	Featuring IÂ·Â·Â·N Halogen Bond and Weaker Interactions in Iodoperfluoroalkylimidazoles: An Experimental and Theoretical Charge Density Study. Crystal Growth and Design, 2019, 19, 1621-1631.	3.0	12
65	Cyanine dyes: synergistic action of hydrogen, halogen and chalcogen bonds allows discrete I₄^{2â^'} anions in crystals. New Journal of Chemistry, 2018, 42, 10463-10466.	2.8	8
66	Tuning of Ionic Liquid Crystal Properties by Combining Halogen Bonding and Fluorous Effect. ChemPlusChem, 2021, 86, 469-474.	2.8	8
67	Halogen and Hydrogen Bonding in Multicomponent Crystals of Tetrabromo-1H-Benzotriazole. Crystals, 2017, 7, 332.	2.2	6
68	(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
69	Proton in a Confined Space: Structural Studies of H⁺âŠ‚Cryptâ€•111 Iodide and Some Halogenâ€Bonded Derivatives. Chemistry - A European Journal, 2017, 23, 14462-14468.	3.3	2
70	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
71	Connectivity and Topology Invariance in Self-Assembled and Halogen-Bonded Anionic (6,3)-Networks. Molecules, 2017, 22, 2060.	3.8	1
72	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

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73	Crystal structure refinement with constraints. Computers & Chemistry, 1978, 2, 49-51.	1.2	0
74	Proton in a Confined Space: Structural Studies of H+ âŠ‚Crypt-111 Iodide and Some Halogen-Bonded Derivatives. Chemistry - A European Journal, 2017, 23, 14388-14388.	3.3	0