

Tiddo Jonathan Mooibroek

List of Publications by Year in descending order

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78
papers

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109321

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69250

77
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all docs

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docs citations

86
times ranked

4202
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective binding of ReO ₄ [−] And PtCl ₄ [−] By a Pd ₂ L ₄ cage in water. Inorganic Chemistry Communication, 2022, 139, 109284.	3.9	4
2	Transition Metal Catalysis Controlled by Hydrogen Bonding in the Second Coordination Sphere. Chemical Reviews, 2022, 122, 12308-12369.	47.7	60
3	DFT and IsoStar Analyses to Assess the Utility of π - and σ -Hole Interactions for Crystal Engineering. ChemPhysChem, 2021, 22, 141-153.	2.1	9
4	Intermolecular π - π Stacking Interactions Made Visible. Journal of Chemical Education, 2021, 98, 540-545.	2.3	12
5	Spodium bonding in five coordinated Zn(μ_2): a new player in crystal engineering?. CrystEngComm, 2021, 23, 3084-3093.	2.6	33
6	σ -Hole spodium bonding in tri-coordinated Hg(μ_2) complexes. Dalton Transactions, 2021, 50, 7545-7553.	3.3	14
7	Anion binding properties of a hollow PdL-cage. Chemical Communications, 2021, 57, 7184-7187.	4.1	12
8	Cover Feature: DFT and IsoStar Analyses to Assess the Utility of π - and σ -Hole Interactions for Crystal Engineering (2/2021). ChemPhysChem, 2021, 22, 140-140.	2.1	0
9	Molecular Recognition. ChemPhysChem, 2021, 22, 433-434.	2.1	4
10	An Octa-Urea [Pd ₂ L ₄] ⁴⁺ Cage that Selectively Binds to <i>n</i> -octyl- α -D-Mannoside. ChemPhysChem, 2021, 22, 1187-1192.	2.1	10
11	A Synthetic Galectin Mimic. Angewandte Chemie - International Edition, 2021, 60, 16178-16183.	13.8	12
12	A Synthetic Galectin Mimic. Angewandte Chemie, 2021, 133, 16314-16319.	2.0	5
13	A Simple Strategy to Obtain Synthetic Ca ²⁺ -Dependent Lectin Mimics. European Journal of Organic Chemistry, 2021, 2021, 4218-4223.	2.4	2
14	Computational Evaluation of Me ₂ TCCP as Lewis acid. ChemPhysChem, 2021, 22, 2099-2106.	2.1	2
15	A Water Soluble Pd ₂ L ₄ Cage for Selective Binding of Neu5Ac. Chemistry - A European Journal, 2021, 27, 13719-13724.	3.3	12
16	Frustrated Lewis Pairs based on Carbon-Carbon tetrel bonds: A DFT study. Mar \acute{a} de las Nieves Pi \acute{a} -a[a], Antonio Frontera[a], Tiddo. J. Mooibroek[b],* and Antonio Bauz \acute{a} -i*[a]. ChemPhysChem, 2021, 22, 2478-2483.	2.1	3
17	Comparison of [Pd ₂ L ₄][BF ₄] ₄ cages for binding of <i>n</i> -octyl glycosides and nitrate (L = isophthalamide or dipicolinamide linked dipyriddy ligand). Organic and Biomolecular Chemistry, 2021, 19, 6633-6637.	2.8	4
18	A combined theoretical and CSD perspective on σ -hole interactions with tetrels, pnictogens, chalcogens, halogens, and noble gases. , 2021, , 119-155.		4

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19	π-Hole Interactions with Various Nitro Compounds Relevant for Medicine: DFT Calculations and Surveys of the Cambridge Structural Database (CSD) and the Protein Data Bank (PDB). <i>Synthesis</i> , 2020, 52, 521-528.	2.3	11
20	Intramolecular Spodium Bonds in Zn(II) Complexes: Insights from Theory and Experiment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7091.	4.1	41
21	Observations of tetrel bonding between sp ³ -carbon and THF. <i>Chemical Science</i> , 2020, 11, 5289-5293.	7.4	43
22	A [Pd ₂ L ₄] ⁴⁺ cage complex for n-octyl-β-d-glycoside recognition. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4734-4738.	2.8	17
23	Spodium Bonds: Noncovalent Interactions Involving Group 12 Elements. <i>Angewandte Chemie</i> , 2020, 132, 17635-17640.	2.0	21
24	Spodium Bonds: Noncovalent Interactions Involving Group 12 Elements. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17482-17487.	13.8	136
25	Engineering Crystals Using sp ³ Centred Tetrel Bonding Interactions. <i>Chemistry - A European Journal</i> , 2020, 26, 10126-10132.	3.3	28
26	Cyanamides as π-Hole Donor Components of Structure-Directing (Cyanamide)-Arene Noncovalent Interactions. <i>Crystal Growth and Design</i> , 2020, 20, 4783-4793.	3.0	19
27	Synthesis, X-ray characterization and regium bonding interactions of a trichlorido(1-hexylcytosine)gold(III) complex. <i>Chemical Communications</i> , 2020, 56, 3524-3527.	4.1	28
28	Intramolecular π-hole interactions with nitro aromatics. <i>CrystEngComm</i> , 2019, 21, 5410-5417.	2.6	16
29	π-Hole Interactions Involving Nitro Aromatic Ligands in Protein Structures. <i>Chemistry - A European Journal</i> , 2019, 25, 13436-13443.	3.3	34
30	Intermolecular Non-Covalent Carbon-Bonding Interactions with Methyl Groups: A CSD, PDB and DFT Study. <i>Molecules</i> , 2019, 24, 3370.	3.8	34
31	Intermolecular π-hole/σ-hole interactions with carbon monoxide ligands in crystal structures. <i>Chemical Communications</i> , 2018, 54, 12049-12052.	4.1	31
32	π-Hole/σ-hole interactions with acetonitrile in crystal structures. <i>Chemical Communications</i> , 2018, 54, 10742-10745.	4.1	27
33	Maltodextrin recognition by a macrocyclic synthetic lectin. <i>Chemical Communications</i> , 2018, 54, 8649-8652.	4.1	25
34	NO ₃ ⁻ anions can act as Lewis acid in the solid state. <i>Nature Communications</i> , 2017, 8, 14522.	12.8	72
35	Disaggregation is a Mechanism for Emission Turn-On of <i>ortho</i> -Aminomethylphenylboronic Acid-Based Saccharide Sensors. <i>Journal of the American Chemical Society</i> , 2017, 139, 5568-5578.	13.7	60
36	Enantioselective carbohydrate recognition by synthetic lectins in water. <i>Chemical Science</i> , 2017, 8, 4056-4061.	7.4	56

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37	Coordinated nitrate anions can be directional π -hole donors in the solid state: a CSD study. <i>CrystEngComm</i> , 2017, 19, 4485-4488.	2.6	36
38	Platform Synthetic Lectins for Divalent Carbohydrate Recognition in Water. <i>Angewandte Chemie</i> , 2016, 128, 9457-9461.	2.0	24
39	Platform Synthetic Lectins for Divalent Carbohydrate Recognition in Water. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9311-9315.	13.8	45
40	Synthetic Receptors for the High-Affinity Recognition of α -GlcNAc Derivatives. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3387-3392.	13.8	86
41	Synthetic Receptors for the High-Affinity Recognition of α -GlcNAc Derivatives. <i>Angewandte Chemie</i> , 2016, 128, 3448-3453.	2.0	36
42	π -Hole Interactions Involving Nitro Compounds: Directionality of Nitrate Esters. <i>Crystal Growth and Design</i> , 2016, 16, 5520-5524.	3.0	67
43	π -Hole Opposite to a Lone Pair: Unconventional Pnictogen Bonding Interactions between ZF_3 (Z=N, P, As, and Sb) Compounds and Several Donors. <i>ChemPhysChem</i> , 2016, 17, 1608-1614.	2.1	68
44	Synthesis and evaluation of a desymmetrised synthetic lectin: an approach to carbohydrate receptors with improved versatility. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1930-1933.	2.8	22
45	1,1,2-Tetracyanocyclopropane (TCCP) as supramolecular synthon. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1693-1698.	2.8	49
46	Tetrel Bonding Interactions. <i>Chemical Record</i> , 2016, 16, 473-487.	5.8	188
47	A threading receptor for polysaccharides. <i>Nature Chemistry</i> , 2016, 8, 69-74.	13.6	119
48	Towards design strategies for anion- π interactions in crystal engineering. <i>CrystEngComm</i> , 2016, 18, 10-23.	2.6	101
49	The Bright Future of Unconventional π -Hole Interactions. <i>ChemPhysChem</i> , 2015, 16, 2496-2517.	2.1	569
50	Affinity Enhancement by Dendritic Side Chains in Synthetic Carbohydrate Receptors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2057-2061.	13.8	58
51	The N-atom in $[N(PR_3)_2]^+$ cations (R = Ph, Me) can act as electron donor for (pseudo) anti-electrostatic interactions. <i>CrystEngComm</i> , 2015, 17, 3768-3771.	2.6	17
52	Directionality of π -holes in nitro compounds. <i>Chemical Communications</i> , 2015, 51, 1491-1493.	4.1	130
53	A Practical, Large-Scale Synthesis of Pyrene-2-Carboxylic Acid. <i>Synlett</i> , 2014, 25, 2591-2594.	1.8	9
54	Influence of ring size on the strength of carbon bonding complexes between anions and perfluorocycloalkanes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19192-19197.	2.8	41

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55	A catalytic role for methionine revealed by a combination of computation and experiments on phosphite dehydrogenase. <i>Chemical Science</i> , 2014, 5, 2191-2199.	7.4	28
56	Small Cycloalkane (CN) ₂ Ci ₂ C(CN) ₂ Structures Are Highly Directional Non-covalent Carbon-Bond Donors. <i>Chemistry - A European Journal</i> , 2014, 20, 10245-10248.	3.3	89
57	Non-covalent sp ³ carbon bonding with ArCF ₃ is analogous to CH ₃ interactions. <i>Chemical Communications</i> , 2014, 50, 12626-12629.	4.1	86
58	Homogeneous Hydrogenation and Isomerization of 1-Octene Catalyzed by Nickel(II) Complexes with Bidentate Diarylphosphane Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 8190-8201.	4.0	27
59	Tetrel-Bonding Interaction: Rediscovered Supramolecular Force?. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12317-12321.	13.8	575
60	Halogen-phenyl supramolecular interactions in the solid state: hydrogen versus halogen bonding and directionality. <i>CrystEngComm</i> , 2013, 15, 1802.	2.6	39
61	Halogen bonding versus hydrogen bonding: what does the Cambridge Database reveal?. <i>CrystEngComm</i> , 2013, 15, 4565.	2.6	45
62	Easy Demonstration of the Marangoni Effect by Prolonged and Directional Motion: "Soap Boat 2.0". <i>Journal of Chemical Education</i> , 2013, 90, 1353-1357.	2.3	24
63	How directional are D-H phenyl interactions in the solid state (D = C, N, O)?. <i>CrystEngComm</i> , 2012, 14, 8462.	2.6	29
64	Mechanistic Study of the L ₂ Pd-Catalyzed Reduction of Nitrobenzene with CO in Methanol: Comparative Study between Diphosphane and 1,10-Phenanthroline Complexes. <i>Organometallics</i> , 2012, 31, 4142-4156.	2.3	28
65	Anion-arene and lone pair-arene interactions are directional. <i>CrystEngComm</i> , 2012, 14, 1027-1030.	2.6	67
66	Directional character of solvent- and anion-pentafluorophenyl supramolecular interactions. <i>CrystEngComm</i> , 2012, 14, 3902.	2.6	41
67	Mechanistic Study of the Oxidative Carbonylation of Methanol Catalyzed by Palladium Diphosphane Complexes with Nitrobenzene as Oxidant. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1403-1412.	2.0	13
68	Putting Anion- interactions Into Perspective. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9564-9583.	13.8	591
69	Carbonylation of Nitrobenzene in Methanol with Palladium Bidentate Phosphane Complexes: An Unexpectedly Complex Network of Catalytic Reactions, Centred around a Pd-imido Intermediate. <i>Chemistry - A European Journal</i> , 2011, 17, 13318-13333.	3.3	33
70	NMR Spectroscopic Studies of Palladium(II) Complexes of Bidentate Diphenylphosphane Ligands with Acetate and Tosylate Anions: Complex Formation and Structures. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 298-310.	2.0	20
71	Efficient, stable, tunable, and easy to synthesize, handle and recycle luminescent materials: [H ₂ NMe ₂] ₃ [Ln(III)(2,6-dipicolinate) ₃] (Ln = Eu, Tb, or its solid solutions). <i>Dalton Transactions</i> , 2010, 39, 6483.	3.3	42
72	Structure elucidation of the unprecedented asymmetric bis-chelate complex [Pd(1,3-bis(di(o-methoxy-m-methylphenyl)phosphino)propane) ₂] ²⁺ in the solid state and in solution. <i>Dalton Transactions</i> , 2010, 39, 11027.	3.3	4

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73	A Mixed-Valent Pentanuclear Cu ^{II} ₄ Cu ^I Compound Containing a Radical-Anion Ligand. <i>Inorganic Chemistry</i> , 2009, 48, 10643-10651.	4.0	20
74	What's New in the Realm of Anion Binding Interactions? Putting the Anion Interaction in Perspective. <i>Crystal Growth and Design</i> , 2008, 8, 1082-1093.	3.0	202
75	Lone pair interactions: a new supramolecular bond?. <i>CrystEngComm</i> , 2008, 10, 1501.	2.6	492
76	Anion Binding Involving π -Acidic Heteroaromatic Rings. <i>Accounts of Chemical Research</i> , 2007, 40, 435-444.	15.6	522
77	The s-triazine ring, a remarkable unit to generate supramolecular interactions. <i>Inorganica Chimica Acta</i> , 2007, 360, 381-404.	2.4	151
78	Crystallographic and Theoretical Evidence of Acetonitrile Interactions with the Electron-Deficient 1,3,5-Triazine Ring. <i>Crystal Growth and Design</i> , 2006, 6, 1569-1574.	3.0	76