

# James G M Hooper

## List of Publications by Year in descending order

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46  
papers

1,372  
citations

394421

19  
h-index

345221

36  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-like Boronâ€“Carbonâ€“Nitrogen Monolayers. ACS Nano, 2017, 11, 2486-2493.	14.6	154
2	Metallization of magnesium polyhydrides under pressure. Physical Review B, 2013, 87, .	3.2	102
3	Polyhydrides of the Alkaline Earth Metals: A Look at the Extremes under Pressure. Journal of Physical Chemistry C, 2013, 117, 2982-2992.	3.1	84
4	Layered single-bonded nonmolecular phase of nitrogen from first-principles simulation. Physical Review B, 2005, 72, .	3.2	82
5	Rubidium Polyhydrides Under Pressure: Emergence of the Linear H <sub>3</sub> <sup>+</sup> Species. Chemistry - A European Journal, 2012, 18, 5013-5021.	3.3	68
6	High Pressure Potassium Polyhydrides: A Chemical Perspective. Journal of Physical Chemistry C, 2012, 116, 13322-13328.	3.1	63
7	Low-pressure metastable phase of single-bonded polymeric nitrogen from a helical structure motif and first-principles calculations. Physical Review B, 2007, 75, .	3.2	60
8	Systematic Method to New Phases of Polymeric Nitrogen under High Pressure. Physical Review Letters, 2006, 97, 155503.	7.8	59
9	Composition and Constitution of Compressed Strontium Polyhydrides. Journal of Physical Chemistry C, 2014, 118, 6433-6447.	3.1	59
10	Locking and Unlocking the Molecular Spin Crossover Transition. Advanced Materials, 2017, 29, 1702257.	21.0	55
11	Compressed Cesium Polyhydrides: Cs <sup>+</sup> Sublattices and H <sub>3</sub> <sup>+</sup> Three-Connected Nets. Inorganic Chemistry, 2012, 51, 9333-9342.	4.0	54
12	A DFT+U study of defect association and oxygen migration in samarium-doped ceria. Physical Chemistry Chemical Physics, 2011, 13, 6116.	2.8	51
13	Self-assembly of strongly dipolar molecules on metal surfaces. Journal of Chemical Physics, 2015, 142, 101921.	3.0	38
14	Lithium Subhydrides under Pressure and Their Superatomâ€“like Building Blocks. ChemPlusChem, 2012, 77, 969-972.	2.8	30
15	Polymorphism driven optical properties of an anil dye. CrystEngComm, 2016, 18, 7249-7259.	2.6	29
16	Origin of Diastereoselectivity in the Tandem Oxy-Cope/Claisen/Ene Reaction:Â Experimental and Theoretical Studies of the Ring Inversion Mechanism. Journal of the American Chemical Society, 2007, 129, 2112-2119.	13.7	25
17	Pressure induced structural transitions in KH, RbH, and CsH. Journal of Applied Physics, 2012, 111, 112611.	2.5	23
18	Proton transfer in surface-stabilized chiral motifs of croconic acid. Physical Review B, 2013, 87, .	3.2	22

#	ARTICLE	IF	CITATIONS
19	Coverage-Dependent Interactions at the Organicsâ€“Metal Interface: Quinonoid Zwitterions on Au(111). <i>Journal of Physical Chemistry C</i> , 2013, 117, 16406-16415.	3.1	21
20	Anionâ€“ recognition between $[M(CN)_6]^{3-}$ complexes and HAT(CN) <sub>6</sub> : structural matching and electronic charge density modification. <i>Dalton Transactions</i> , 2017, 46, 3482-3491.	3.3	20
21	Mesomorphic phase transitions of 3F7HPhF studied by complementary methods. <i>Phase Transitions</i> , 2018, 91, 186-198.	1.3	20
22	Kagome-like lattice of â€“ stacked 3-hydroxyphenalenone on Cu(111). <i>Chemical Communications</i> , 2014, 50, 8659-8662.	4.1	19
23	2D Cocrystallization from H-Bonded Organic Ferroelectrics. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 435-440.	4.6	19
24	Computational insights into the nature of increased ionic conductivity in concentrated samarium-doped ceria: a genetic algorithm study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12969.	2.8	18
25	Resonance Assisted Hydrogen Bonding Phenomenon Unveiled through Both Experiments and Theory: A New Family of Ethyl Nâ€“salicylidene-glycinate Dyes. <i>Chemistry - A European Journal</i> , 2020, 26, 12987-12995.	3.3	18
26	Rhodizonic Acid on Noble Metals: Surface Reactivity and Coordination Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3413-3419.	4.6	14
27	Genetic algorithm and first-principles DFT study of the high-pressure molecularâ“phase of nitrogen. <i>Physical Review B</i> , 2009, 80, .	3.2	13
28	Electronic Structure of Iron Porphyrin Adsorbed to the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29173-29181.	3.1	13
29	On the Origin of Altered Diastereomeric Ratios for Anionic versus Neutral Reaction Conditions in the Oxyâ€“Cope/Ene Reaction: An Interplay of Experiment and Computational Modeling. <i>Chemistry - A European Journal</i> , 2010, 16, 14124-14130.	3.3	11
30	Genetic algorithm based approach to investigate doped metal oxide materials: Application to lanthanide-doped ceria. <i>Physical Review B</i> , 2010, 81, .	3.2	11
31	Modulating Bond Lengths via Backdonation: A First-Principles Investigation of a Quinonoid Zwitterion Adsorbed to Coinage Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6633-6641.	3.1	11
32	Anionâ€“ Architectures of HAT(CN) <sub>6</sub> and 5d Polycyanidometalates: $[W(CN)_8]^{3-}$ , $[Re(CN)_7]^{3-}$ , and $[Pt(CN)_6]^{2-}$ . <i>Crystal Growth and Design</i> , 2019, 19, 1215-1225.	3.0	11
33	On the Nature of Geâ€“Pb Bonding in the Solid State. Synthesis, Structural Characterization, and Electronic Structures of Two Unprecedented Germanide-Plumbides. <i>Journal of the American Chemical Society</i> , 2012, 134, 12708-12716.	13.7	10
34	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anionâ€“ $\{[M(CN)_4]^{2-}; [HAT(CN)_6]\}^{z-}$ (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16302-16314.	3.3	10
35	Influence of fluorosubstitution on physical properties of the smectogenic chiral ester. <i>Materials Research Bulletin</i> , 2022, 150, 111756.	5.2	10
36	Interplay between Hydrogen Bonding, Epitaxy, and Charge Transfer in the Self-Assembly of Croconic Acid on Au(111) and Ag(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 26429-26437.	3.1	9

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37	Structure and Proton-Transfer Mechanism in One-Dimensional Chains of Benzimidazoles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5804-5809.	3.1	8
38	Seeking Out Heterogeneous Hydrogen Bonding in a Self-Assembled 2D Cocrystal of Croconic Acid and Benzimidazole on Au(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 2403-2410.	3.1	8
39	Chiral surface networks of 3-HPLN " A molecular analog of rounded triangle assembly. <i>Surface Science</i> , 2014, 629, 65-74.	1.9	7
40	On the Border between Low-Nuclearity and One-Dimensional Solids: A Unique Interplay of 1,2,4-Triazolyl-Based {Cu <sup>II</sup> <sub>5</sub> (OH) <sub>2</sub> } Clusters and Mo <sup>VI</sup> -Oxide Matrix. <i>Inorganic Chemistry</i> , 2018, 57, 6076-6083.	4.0	7
41	Urban Particulate Matter-Induced Decomposition of <i>S</i> -Nitrosoglutathione Relevant to Aberrant Nitric Oxide Biological Signaling. <i>ChemSusChem</i> , 2019, 12, 661-671.	6.8	7
42	Binding of anionic Pt( <sup>II</sup> ) complexes in a dedicated organic matrix: towards new binary crystalline composites. <i>Dalton Transactions</i> , 2021, 50, 170-185.	3.3	7
43	A concerted evolution of supramolecular interactions in a {cation; metal complex; "acid; solvent} anion-" system. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1851-1863.	6.0	6
44	Exploring "Triazole-Thiourea"-Based Ligands for the Self-Assembly of Photoluminescent Hg(II) Coordination Compounds. <i>Crystal Growth and Design</i> , 2021, 21, 3562-3581.	3.0	5
45	First principles investigation on how site preference and entropy affect the stability of (Eu <sub>x</sub> M <sub>1-x</sub> ) <sub>2</sub> Ge <sub>2</sub> Pb (M = Ca,) <i>Tj ET@q1 1 0.784314</i>		
46	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anion-" { [M(CN) <sub>4</sub> ] <sup>2-</sup> ; [HAT(CN) <sub>6</sub> ] <sup>-</sup> } (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16195-16195.	3.3	0