James G M Hooper

List of Publications by Year
in descending order

46 papers	1,372 citations	393982 19 h-index	344852 36 g-index
52 all docs	52 docs citations	52 times ranked	1542 citing authors

#	Article	IF	Citations
1	Influence of fluorosubstitution on physical properties of the smectogenic chiral ester. Materials Research Bulletin, 2022, 150, 111756.	2.7	10
2	Binding of anionic Pt(<scp>ii</scp>) complexes in a dedicated organic matrix: towards new binary crystalline composites. Dalton Transactions, 2021, 50, 170-185.	1.6	7
3	Exploring â€œTriazole-Thioureaâ€•Based Ligands for the Self-Assembly of Photoluminescent Hg(II) Coordination Compounds. Crystal Growth and Design, 2021, 21, 3562-3581.	1.4	5
4	Seeking Out Heterogeneous Hydrogen Bonding in a Self-Assembled 2D Cocrystal of Croconic Acid and Benzimidazole on Au(111). Journal of Physical Chemistry C, 2021, 125, 2403-2410.	1.5	8
5	Resonance Assisted Hydrogen Bonding Phenomenon Unveiled through Both Experiments and Theory: A New Family of Ethyl Nâ€Salicylideneglycinate Dyes. Chemistry - A European Journal, 2020, 26, 12987-12995.	1.7	18
6	A concerted evolution of supramolecular interactions in a {cation; metal complex; Ï€-acid; solvent} anion-Ï€ system. Inorganic Chemistry Frontiers, 2020, 7, 1851-1863.	3.0	6
7	Urban Particulate Matterâ€Induced Decomposition of Sâ€Nitrosoglutathione Relevant to Aberrant Nitric Oxide Biological Signaling. ChemSusChem, 2019, 12, 661-671.	3.6	7
8	Anion-Ï€ Architectures of HAT(CN)₆ and 5d Polycyanidometalates: [W(CN)₈]^{3â€“}, [Re(CN)₇]^{3â€“}, and [Pt(CN)₆]^{2â€“}. Crystal Growth and Design, 2019, 19, 1215-1225.	1.4	11
9	Mesomorphic phase transitions of 3F7HPhF studied by complementary methods. Phase Transitions, 2018, 91, 186-198.	0.6	20
10	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anionâ€“Ï€ {[M(CN)₄]^{2â^’};[HAT(CN)₆]}_{â^ž} (M=Ni, Pd, Pt) Supramolecular Stacks. Chemistry - A European Journal, 2018, 24, 16195-16195.	1.7	0
11	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anionâ€“Ï€ {[M(CN)₄]^{2â^’};[HAT(CN)₆]}_{â^ž} (M=Ni, Pd, Pt) Supramolecular Stacks. Chemistry - A European Journal, 2018, 24, 16302-16314.	1.7	10
12	On the Border between Low-Nuclearity and One-Dimensional Solids: A Unique Interplay of 1,2,4-Triazolyl-Based {Cu^{II}₅(OH)₂} Clusters and Mo^{VI}-Oxide Matrix. Inorganic Chemistry, 2018, 57, 6076-6083.	1.9	7
13	Anionâ€“Ï€ recognition between [M(CN)₆]^{3â^’} complexes and HAT(CN)₆: structural matching and electronic charge density modification. Dalton Transactions, 2017, 46, 3482-3491.	1.6	20
14	Graphene-like Boronâ€“Carbonâ€“Nitrogen Monolayers. ACS Nano, 2017, 11, 2486-2493.	7.3	154
15	Locking and Unlocking the Molecular Spin Crossover Transition. Advanced Materials, 2017, 29, 1702257.	11.1	55
16	Electronic Structure of Iron Porphyrin Adsorbed to the Pt(111) Surface. Journal of Physical Chemistry C, 2016, 120, 29173-29181.	1.5	13
17	Modulating Bond Lengths via Backdonation: A First-Principles Investigation of a Quinonoid Zwitterion Adsorbed to Coinage Metal Surfaces. Journal of Physical Chemistry C, 2016, 120, 6633-6641.	1.5	11
18	2D Cocrystallization from H-Bonded Organic Ferroelectrics. Journal of Physical Chemistry Letters, 2016, 7, 435-440.	2.1	19

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19	Polymorphism driven optical properties of an anil dye. CrystEngComm, 2016, 18, 7249-7259.	1.3	29
20	First principles investigation on how site preference and entropy affect the stability of (Eu_xM_{1â€“}_x)₂Ge₂Pb (M = Ca,) Tj ETQq0 0 0 rgBT /Overl		
21	Structure and Proton-Transfer Mechanism in One-Dimensional Chains of Benzimidazoles. Journal of Physical Chemistry C, 2016, 120, 5804-5809.	1.5	8
22	Interplay between Hydrogen Bonding, Epitaxy, and Charge Transfer in the Self-Assembly of Croconic Acid on Au(111) and Ag(111). Journal of Physical Chemistry C, 2015, 119, 26429-26437.	1.5	9
23	Self-assembly of strongly dipolar molecules on metal surfaces. Journal of Chemical Physics, 2015, 142, 101921.	1.2	38
24	Chiral surface networks of 3-HPLN â€” A molecular analog of rounded triangle assembly. Surface Science, 2014, 629, 65-74.	0.8	7
25	Kagome-like lattice of Ï€â€“Ï€ stacked 3-hydroxyphenalenone on Cu(111). Chemical Communications, 2014, 50, 8659-8662.	2.2	19
26	Composition and Constitution of Compressed Strontium Polyhydrides. Journal of Physical Chemistry C, 2014, 118, 6433-6447.	1.5	59
27	Coverage-Dependent Interactions at the Organicsâ€“Metal Interface: Quinonoid Zwitterions on Au(111). Journal of Physical Chemistry C, 2013, 117, 16406-16415.	1.5	21
28	Rhodizonic Acid on Noble Metals: Surface Reactivity and Coordination Chemistry. Journal of Physical Chemistry Letters, 2013, 4, 3413-3419.	2.1	14
29	Metallization of magnesium polyhydrides under pressure. Physical Review B, 2013, 87, .	1.1	102
30	Proton transfer in surface-stabilized chiral motifs of croconic acid. Physical Review B, 2013, 87, .	1.1	22
31	Polyhydrides of the Alkaline Earth Metals: A Look at the Extremes under Pressure. Journal of Physical Chemistry C, 2013, 117, 2982-2992.	1.5	84
32	Pressure induced structural transitions in KH, RbH, and CsH. Journal of Applied Physics, 2012, 111, 112611.	1.1	23
33	Compressed Cesium Polyhydrides: Cs⁺ Sublattices and H₃^{â€“} Three-Connected Nets. Inorganic Chemistry, 2012, 51, 9333-9342.	1.9	54
34	High Pressure Potassium Polyhydrides: A Chemical Perspective. Journal of Physical Chemistry C, 2012, 116, 13322-13328.	1.5	63
35	Lithium Subhydrides under Pressure and Their Superatomâ€like Building Blocks. ChemPlusChem, 2012, 77, 969-972.	1.3	30
36	On the Nature of Geâ€“Pb Bonding in the Solid State. Synthesis, Structural Characterization, and Electronic Structures of Two Unprecedented Germanide-Plumbides. Journal of the American Chemical Society, 2012, 134, 12708-12716.	6.6	10

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37	Rubidium Polyhydrides Under Pressure: Emergence of the Linear H₃^{â^'} Species. Chemistry - A European Journal, 2012, 18, 5013-5021.	1.7	68
38	A DFT+U study of defect association and oxygen migration in samarium-doped ceria. Physical Chemistry Chemical Physics, 2011, 13, 6116.	1.3	51
39	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. Chemistry - A European Journal, 2010, 16, 14124-14130.	1.7	11
40	Genetic algorithm based approach to investigate doped metal oxide materials: Application to lanthanide-doped ceria. Physical Review B, 2010, 81, .	1.1	11
41	Computational insights into the nature of increased ionic conductivity in concentrated samarium-doped ceria: a genetic algorithm study. Physical Chemistry Chemical Physics, 2010, 12, 12969.	1.3	18
42	Genetic algorithm and first-principles DFT study of the high-pressure molecularÎ¶phase of nitrogen. Physical Review B, 2009, 80, .	1.1	13
43	Low-pressure metastable phase of single-bonded polymeric nitrogen from a helical structure motif and first-principles calculations. Physical Review B, 2007, 75, .	1.1	60
44	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.	6.6	25
45	Systematic Method to New Phases of Polymeric Nitrogen under High Pressure. Physical Review Letters, 2006, 97, 155503.	2.9	59
46	Layered single-bonded nonmolecular phase of nitrogen from first-principles simulation. Physical Review B, 2005, 72, .	1.1	82