

James G M Hooper

List of Publications by Year in descending order

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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	Graphene-like Boron- ¹¹ B-Carbon- ¹³ C-Nitrogen Monolayers. ACS Nano, 2017, 11, 2486-2493.	7.3	154
2	Metallization of magnesium polyhydrides under pressure. Physical Review B, 2013, 87, .	1.1	102
3	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
4	Layered single-bonded nonmolecular phase of nitrogen from first-principles simulation. Physical Review B, 2005, 72, .	1.1	82
5	Rubidium Polyhydrides Under Pressure: Emergence of the Linear H ₃ ⁺ Species. Chemistry - A European Journal, 2012, 18, 5013-5021.	1.7	68
6	High Pressure Potassium Polyhydrides: A Chemical Perspective. Journal of Physical Chemistry C, 2012, 116, 13322-13328.	1.5	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, .	1.1	60
8	Systematic Method to New Phases of Polymeric Nitrogen under High Pressure. Physical Review Letters, 2006, 97, 155503.	2.9	59
9	Composition and Constitution of Compressed Strontium Polyhydrides. Journal of Physical Chemistry C, 2014, 118, 6433-6447.	1.5	59
10	Locking and Unlocking the Molecular Spin Crossover Transition. Advanced Materials, 2017, 29, 1702257.	11.1	55
11	Compressed Cesium Polyhydrides: Cs ⁺ Sublattices and H ₃ ⁺ Three-Connected Nets. Inorganic Chemistry, 2012, 51, 9333-9342.	1.9	54
12	A DFT+U study of defect association and oxygen migration in samarium-doped ceria. Physical Chemistry Chemical Physics, 2011, 13, 6116.	1.3	51
13	Self-assembly of strongly dipolar molecules on metal surfaces. Journal of Chemical Physics, 2015, 142, 101921.	1.2	38
14	Lithium Subhydrides under Pressure and Their Superatom-like Building Blocks. ChemPlusChem, 2012, 77, 969-972.	1.3	30
15	Polymorphism driven optical properties of an anil dye. CrystEngComm, 2016, 18, 7249-7259.	1.3	29
16	Origin of Diastereoselectivity in the Tandem Oxy-Cope/Claisen/Ene Reaction: A Experimental and Theoretical Studies of the Ring Inversion Mechanism. Journal of the American Chemical Society, 2007, 129, 2112-2119.	6.6	25
17	Pressure induced structural transitions in KH, RbH, and CsH. Journal of Applied Physics, 2012, 111, 112611.	1.1	23
18	Proton transfer in surface-stabilized chiral motifs of croconic acid. Physical Review B, 2013, 87, .	1.1	22

#	ARTICLE	IF	CITATIONS
19	Coverage-Dependent Interactions at the Organics-Metal Interface: Quinonoid Zwitterions on Au(111). <i>Journal of Physical Chemistry C</i> , 2013, 117, 16406-16415.	1.5	21
20	Anion-recognition between $[M(CN)_6]^{3-}$ complexes and HAT(CN) ₆ : structural matching and electronic charge density modification. <i>Dalton Transactions</i> , 2017, 46, 3482-3491.	1.6	20
21	Mesomorphic phase transitions of 3F7HPhF studied by complementary methods. <i>Phase Transitions</i> , 2018, 91, 186-198.	0.6	20
22	Kagome-like lattice of stacked 3-hydroxyphenalenone on Cu(111). <i>Chemical Communications</i> , 2014, 50, 8659-8662.	2.2	19
23	2D Cocrystallization from H-Bonded Organic Ferroelectrics. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 435-440.	2.1	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.	1.3	18
25	Resonance Assisted Hydrogen Bonding Phenomenon Unveiled through Both Experiments and Theory: A New Family of Ethyl Salicylidene-glycinate Dyes. <i>Chemistry - A European Journal</i> , 2020, 26, 12987-12995.	1.7	18
26	Rhodizonic Acid on Noble Metals: Surface Reactivity and Coordination Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3413-3419.	2.1	14
27	Genetic algorithm and first-principles DFT study of the high-pressure molecular phase of nitrogen. <i>Physical Review B</i> , 2009, 80, .	1.1	13
28	Electronic Structure of Iron Porphyrin Adsorbed to the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29173-29181.	1.5	13
29	On the Origin of Altered Diastereomeric Ratios for Anionic versus Neutral Reaction Conditions in the Oxy-Cope/Ene Reaction: An Interplay of Experiment and Computational Modeling. <i>Chemistry - A European Journal</i> , 2010, 16, 14124-14130.	1.7	11
30	Genetic algorithm based approach to investigate doped metal oxide materials: Application to lanthanide-doped ceria. <i>Physical Review B</i> , 2010, 81, .	1.1	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.	1.5	11
32	Anion-Architectures of HAT(CN) ₆ 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.	1.4	11
33	On the Nature of Ge-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.	6.6	10
34	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anion- $\{[M(CN)_4]^{2-}; [HAT(CN)_6]\}^{z-}$ (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16302-16314.	1.7	10
35	Influence of fluorosubstitution on physical properties of the smectogenic chiral ester. <i>Materials Research Bulletin</i> , 2022, 150, 111756.	2.7	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.	1.5	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.	1.5	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.	1.5	8
39	Chiral surface networks of 3-HPLN " A molecular analog of rounded triangle assembly. <i>Surface Science</i> , 2014, 629, 65-74.	0.8	7
40	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. <i>Inorganic Chemistry</i> , 2018, 57, 6076-6083.	1.9	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.	3.6	7
42	Binding of anionic Pt(II) complexes in a dedicated organic matrix: towards new binary crystalline composites. <i>Dalton Transactions</i> , 2021, 50, 170-185.	1.6	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.	3.0	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.	1.4	5
45	First principles investigation on how site preference and entropy affect the stability of (Eu _x M _{1-x}) ₂ Ge ₂ Pb (M = Ca, Tj) <i>ChemSusChem</i> 11 0784314	1.0	1
46	Molecular Deformation, Charge Flow, and Spongelike Behavior in Anion- " { [M(CN) ₄] ²⁻ ; [HAT(CN) ₆] ⁻ } _n (M=Ni, Pd, Pt) Supramolecular Stacks. <i>Chemistry - A European Journal</i> , 2018, 24, 16195-16195.	1.7	0