Christopher A Howard

List of Publications by Year
in descending order

61	2,878	201385	168136
papers	citations	27 h-index	53 g-index

62	62	62	4493
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	TOF-SIMS analysis of curcuminoids and curcumin crystals crystallized from their pure and impure solutions. CrystEngComm, 2022, 24, 2485-2504.	1.3	1
2	Towards a Pseudocapacitive Battery: Benchmarking the Capabilities of Quantized Capacitance for Energy Storage. , 2022, 1, .		3
3	Probing adsorbent heterogeneity using Toth isotherms. Journal of Materials Chemistry A, 2021, 9, 944-962.	5.2	12
4	Exfoliating large monolayers in liquids. Nature Materials, 2021, 20, 130-131.	13.3	2
5	Understanding spontaneous dissolution of crystalline layered carbon nitride for tuneable photoluminescent solutions and glasses. Journal of Materials Chemistry A, 2021, 9, 2175-2183.	5.2	8
6	A novel fuel cell design for operando energy-dispersive x-ray absorption measurements. Journal of Physics Condensed Matter, 2021, 33, 314002.	0.7	6
7	Charge Density Waves in Electron-Doped Molybdenum Disulfide. Nano Letters, 2021, 21, 5516-5521.	4.5	10
8	Intermediate Range Order in Metalâ€“Ammonia Solutions: Pure and Na-Doped Ca-NH₃. Journal of Physical Chemistry B, 2021, 125, 7456-7461.	1.2	1
9	Deep neural networks in chemical engineering classrooms to accurately model adsorption equilibrium data. Education for Chemical Engineers, 2021, 36, 115-127.	2.8	18
10	Characterizing Batteries by In Situ Electrochemical Atomic Force Microscopy: A Critical Review. Advanced Energy Materials, 2021, 11, 2101518.	10.2	40
11	Scalable Sacrificial Templating to Increase Porosity and Platinum Utilisation in Graphene-Based Polymer Electrolyte Fuel Cell Electrodes. Nanomaterials, 2021, 11, 2530.	1.9	3
12	Neutron studies of Na-ion battery materials. JPhys Materials, 2021, 4, 042008.	1.8	5
13	Phosphorene Nanoribbon-Augmented Optoelectronics for Enhanced Hole Extraction. Journal of the American Chemical Society, 2021, 143, 21549-21559.	6.6	44
14	Probing Electron-Phonon Interactions Away from the Fermi Level with Resonant Inelastic X-Ray Scattering. Physical Review X, 2021, 11, .	2.8	6
15	Bioengineering the ameloblastoma tumour to study its effect on bone nodule formation. Scientific Reports, 2021, 11, 24088.	1.6	11
16	Aquaporin-like water transport in nanoporous crystalline layered carbon nitride. Science Advances, 2020, 6, .	4.7	17
17	Elucidating the Sodiation Mechanism in Hard Carbon by Operando Raman Spectroscopy. ACS Applied Energy Materials, 2020, 3, 7474-7484.	2.5	56
18	Nanoporous Carbons: Superior Multifunctional Activity of Nanoporous Carbons with Widely Tunable Porosity: Enhanced Storage Capacities for Carbonâ€Dioxide, Hydrogen, Water, and Electric Charge (Adv.) Tj ETQq0 0 0 rgBT /Overlock 1	10.2	

#	Article	IF	Citations
19	Realising the electrochemical stability of graphene: scalable synthesis of an ultra-durable platinum catalyst for the oxygen reduction reaction. Nanoscale, 2020, 12, 16113-16122.	2.8	11
20	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. Nature Energy, 2020, 5, 160-168.	19.8	381
21	Superior Multifunctional Activity of Nanoporous Carbons with Widely Tunable Porosity: Enhanced Storage Capacities for Carbonâ€Dioxide, Hydrogen, Water, and Electric Charge. Advanced Energy Materials, 2020, 10, 1903649.	10.2	41
22	The liquid structure of the solvents dimethylformamide (DMF) and dimethylacetamide (DMA). Molecular Physics, 2019, 117, 3353-3363.	0.8	19
23	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. Chemical Science, 2019, 10, 2519-2528.	3.7	30
24	Solvation of Na^{â€“} in the Sodide Solution, LiNaÂ·10MeNH₂. Journal of Physical Chemistry B, 2019, 123, 5337-5342.	1.2	1
25	Production of phosphorene nanoribbons. Nature, 2019, 568, 216-220.	13.7	208
26	Characterization of the adsorption site energies and heterogeneous surfaces of porous materials. Journal of Materials Chemistry A, 2019, 7, 10104-10137.	5.2	187
27	Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. Energy Storage Materials, 2019, 17, 12-21.	9.5	135
28	Synthesis, Structure and Electronic Properties of Graphitic Carbon Nitride Films. Journal of Physical Chemistry C, 2018, 122, 25183-25194.	1.5	64
29	Lattice dynamics of the cluster chain compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>M</mml:mi><mml:mn>2</mml:mn></mm		

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37	Trajectory of the Selective Dissolution of Charged Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2017, 121, 21703-21712.	1.5	9
38	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. Nano Letters, 2017, 17, 5891-5896.	4.5	76
39	Ionic solutions of two-dimensional materials. Nature Chemistry, 2017, 9, 244-249.	6.6	68
40	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. Electrochimica Acta, 2016, 222, 44-57.	2.6	97
41	Superconductivity in Ca-doped graphene laminates. Scientific Reports, 2016, 6, 23254.	1.6	109
42	Questioning Antiferromagnetic Ordering in the Expanded Metal, Li(NH₃)₄: A Lack of Evidence from Î¼SR. Journal of Physical Chemistry Letters, 2015, 6, 3966-3970.	2.1	1
43	Probing the charging mechanisms of carbon nanomaterial polyelectrolytes. Faraday Discussions, 2014, 172, 311-325.	1.6	25
44	Superconducting graphene sheets in CaC6 enabled by phonon-mediated interband interactions. Nature Communications, 2014, 5, 3493.	5.8	91
45	Electrochemical Processing of Discrete Single-Walled Carbon Nanotube Anions. ACS Nano, 2013, 7, 1769-1778.	7.3	29
46	PanetÂal.Reply:. Physical Review Letters, 2012, 108, .	2.9	4
47	Scalable Method for the Reductive Dissolution, Purification, and Separation of Single-Walled Carbon Nanotubes. ACS Nano, 2012, 6, 54-62.	7.3	81
48	Structure and Morphology of Charged Graphene Platelets in Solution by Small-Angle Neutron Scattering. Journal of the American Chemical Society, 2012, 134, 8302-8305.	6.6	60
49	Electronic structure of superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>KC</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>and Nonsuperconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LiC</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>Graphite Intercalation Compounds: Evidence for a Graphene-Sheet-Driven Superconducting State. Physical Revie	2.9	68
50	Charge density waves in the graphene sheets of the superconductor CaC6. Nature Communications, 2011, 2, 558.	5.8	56
51	Phonons in potassium-doped graphene: The effects of electron-phonon interactions, dimensionality, and adatom ordering. Physical Review B, 2011, 84, .	1.1	62
52	Comparative study of the phonons in nonsuperconducting BaC<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>and superconducting CaC<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>using inelastic x-ray scattering. Physical Review B, 2011, 84, .	1.1	14
53	Structure of Ï€âˆ’Ï€ Interactions in Aromatic Liquids. Journal of the American Chemical Society, 2010, 132, 5735-5742.	6.6	177
54	Nonadiabatic phonons within the doped graphene layers of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:msub><mml:mtext>C</mml:mtext><mml:mn>6</mml:mn></mml:msub></m Physical Review B, 2010, 81, .	1.1	45

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55	Neutron scattering study of the high-energy graphitic phonons in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaC</mml:mtext></mml:mrow><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 82, .	1.1	14
56	Phonons and superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YbC</mml:mtext></mml:mrow><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> related compounds. Physical Review B, 2010, 82, .	1.1	14
57	Anisotropic Electron-Phonon Coupling and Dynamical Nesting on the Graphene Sheets in Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaC</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>using Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2009, 102, 107007.	2.9	78
58	Computer Simulations of Fulleride Anions in Metal-Ammonia Solutions. Journal of Physical Chemistry B, 2009, 113, 3324-3332.	1.2	15
59	Phonons in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>CaC</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>studied via inelastic x-ray scattering. Physical Review B, 2007, 76, .	1.1	17
60	The Solvation Structure of Fulleride C605-Anions in Potassium Ammonia Solution. Journal of Physical Chemistry C, 2007, 111, 5640-5647.	1.5	17
61	Formation of Giant Solvation Shells around Fulleride Anions in Liquid Ammonia. Journal of the American Chemical Society, 2004, 126, 13228-13229.	6.6	27