Hong Fang

List of Publications by Year
in descending order

169 papers	10,029 citations	34016 52 h-index	37111 96 g-index
186 all docs	186 docs citations	186 times ranked	9548 citing authors

#	Article	IF	Citations
1	Penta-graphene: A new carbon allotrope. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2372-2377.	3.3	1,114
2	Materials for Hydrogen Storage: Past, Present, and Future. Journal of Physical Chemistry Letters, 2011, 2, 206-211.	2.1	818
3	Super Atomic Clusters: Design Rules and Potential for Building Blocks of Materials. Chemical Reviews, 2018, 118, 5755-5870.	23.0	426
4	Vacancy-induced magnetism in ZnO thin films and nanowires. Physical Review B, 2008, 77, .	1.1	409
5	Electronic and magnetic properties of a BN sheet decorated with hydrogen and fluorine. Physical Review B, 2010, 81, .	1.1	278
6	Exfoliating biocompatible ferromagnetic Cr-trihalide monolayers. Physical Chemistry Chemical Physics, 2016, 18, 8777-8784.	1.3	273
7	Beyond the Periodic Table of Elements: The Role of Superatoms. Journal of Physical Chemistry Letters, 2013, 4, 1432-1442.	2.1	248
8	Clusters: A bridge across the disciplines of physics and chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10560-10569.	3.3	218
9	Negative thermal expansion and associated anomalous physical properties: review of the lattice dynamics theoretical foundation. Reports on Progress in Physics, 2016, 79, 066503.	8.1	211
10	Ïˆ-Graphene: A New Metallic Allotrope of Planar Carbon with Potential Applications as Anode Materials for Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2017, 8, 3234-3241.	2.1	205
11	Functionalized Graphitic Carbon Nitride for Efficient Energy Storage. Journal of Physical Chemistry C, 2013, 117, 6055-6059.	1.5	171
12	Atomically Thin Transition-Metal Dinitrides: High-Temperature Ferromagnetism and Half-Metallicity. Nano Letters, 2015, 15, 8277-8281.	4.5	168
13	Beyond Graphitic Carbon Nitride: Nitrogen-Rich Penta-CN₂ Sheet. Journal of Physical Chemistry C, 2016, 120, 3993-3998.	1.5	167
14	Hyperhalogens: Discovery of a New Class of Highly Electronegative Species. Angewandte Chemie - International Edition, 2010, 49, 8966-8970.	7.2	146
15	Theoretical Study of Hydrogen Storage in Ca-Coated Fullerenes. Journal of Chemical Theory and Computation, 2009, 5, 374-379.	2.3	130
16	The rise of twoâ€dimensional van der Waals ferroelectrics. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1365.	6.2	127
17	Superalkalis and Superhalogens As Building Blocks of Supersalts. Journal of Physical Chemistry A, 2014, 118, 638-645.	1.1	119
18	Superhalogens as Building Blocks of Halogenâ€Free Electrolytes in Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 13916-13919.	7.2	117

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19	Quantum anomalous Hall effect in ferromagnetic transition metal halides. Physical Review B, 2017, 95, .	1.1	110
20	Li-rich antiperovskite superionic conductors based on cluster ions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11046-11051.	3.3	107
21	Mechanistic Insight into Photocatalytic Pathways of MIL-100(Fe)/TiO₂ Composites. ACS Applied Materials & Interfaces, 2019, 11, 12516-12524.	4.0	103
22	Superhalogen Properties of Fluorinated Coinage Metal Clusters. Journal of Physical Chemistry C, 2010, 114, 16018-16024.	1.5	101
23	Hydroxyl-decorated graphene systems as candidates for organic metal-free ferroelectrics, multiferroics, and high-performance proton battery cathode materials. Physical Review B, 2013, 87, .	1.1	100
24	Highly selective CO2/CH4 gas uptake by a halogen-decorated borazine-linked polymer. Journal of Materials Chemistry, 2012, 22, 13524.	6.7	95
25	Review of modification strategies in emerging inorganic solid-state electrolytes for lithium, sodium, and potassium batteries. Joule, 2022, 6, 543-587.	11.7	90
26	Functionalized heterofullerenes for hydrogen storage. Applied Physics Letters, 2009, 94, .	1.5	89
27	Clusters: A bridge across the disciplines of environment, materials science, and biology. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10554-10559.	3.3	88
28	Magnetic properties of transition-metal-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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37	Stability of B₁₂(CN)₁₂^{2âˆ’}: Implications for Lithium and Magnesium Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 3704-3708.	7.2	72
38	Tetragonal C₂₄: a topological nodal-surface semimetal with potential as an anode material for sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 5733-5739.	5.2	72
39	Role of titanium in hydrogen desorption in crystalline sodium alanate. Applied Physics Letters, 2005, 86, 251913.	1.5	69
40	Tuning magnetic properties of graphene nanoribbons with topological line defects: From antiferromagnetic to ferromagnetic. Physical Review B, 2012, 85, .	1.1	67
41	Bodyâ€Centered Tetragonal C₁₆: A Novel Topological Nodeâ€Line Semimetallic Carbon Composed of Tetrarings. Small, 2017, 13, 1602894.	5.2	65
42	Valley-Polarized Quantum Anomalous Hall Effect in Ferrimagnetic Honeycomb Lattices. Physical Review Letters, 2017, 119, 046403.	2.9	64
43	Molecular Origin of Properties of Organicâ€“Inorganic Hybrid Perovskites: The Big Picture from Small Clusters. Journal of Physical Chemistry Letters, 2016, 7, 1596-1603.	2.1	60
44	Ferromagnetic and Half-Metallic FeC₂ Monolayer Containing C₂ Dimers. ACS Applied Materials & Interfaces, 2016, 8, 26207-26212.	4.0	58
45	Rational design of super-alkalis and their role in CO₂activation. Nanoscale, 2017, 9, 4891-4897.	2.8	58
46	Theoretical study of deep-defect states in bulk PbTe and in thin films. Physical Review B, 2007, 76, .	1.1	57
47	Synthesis and characterization of highly porous borazine-linked polymers and their performance in hydrogen storage application. Journal of Materials Chemistry, 2011, 21, 10629.	6.7	57
48	Organoâ€“Zintl Clusters [P₇R₄]: A New Class of Superalkalis. Journal of Physical Chemistry Letters, 2016, 7, 800-805.	2.1	56
49	Patterning Graphitic Câ€“N Sheets into a Kagome Lattice for Magnetic Materials. Journal of Physical Chemistry Letters, 2013, 4, 259-263.	2.1	55
50	Superhalogen-based lithium superionic conductors. Journal of Materials Chemistry A, 2017, 5, 13373-13381.	5.2	55
51	Strain-Induced Spin Crossover in Phthalocyanine-Based Organometallic Sheets. Journal of Physical Chemistry Letters, 2012, 3, 3109-3114.	2.1	54
52	SiTe monolayers: Si-based analogues of phosphorene. Journal of Materials Chemistry C, 2016, 4, 6353-6361.	2.7	54
53	Structural dynamics of a metalâ€“organic framework induced by CO2 migration in its non-uniform porous structure. Nature Communications, 2019, 10, 999.	5.8	54
54	Synthesis, Characterization, and Atomistic Modeling of Stabilized Highly Pyrophoric Al(BH₄)₃ via the Formation of the Hypersalt K[Al(BH₄)₄]. Journal of Physical Chemistry C, 2013, 117, 19905-19915.	1.5	50

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55	Pressure-induced softening as a common feature of framework structures with negative thermal expansion. Physical Review B, 2013, 87, .	1.1	49
56	Aromatic Superhalogens. Chemistry - A European Journal, 2014, 20, 4736-4745.	1.7	49
57	Density Functional Theory Study of the Interaction of Hydrogen with Li₆C₆₀. Journal of Physical Chemistry Letters, 2012, 3, 1084-1088.	2.1	48
58	Simulation study of pressure and temperature dependence of the negative thermal expansion in Zn(CN)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	46
59	Zn in the +III Oxidation State. Journal of the American Chemical Society, 2012, 134, 8400-8403.	6.6	45
60	High-temperature superconductivity in heavily N- or B-doped graphene. Physical Review B, 2015, 92, .	1.1	45
61	A new 3D Dirac nodal-line semi-metallic graphene monolith for lithium ion battery anode materials. Journal of Materials Chemistry A, 2018, 6, 13816-13824.	5.2	44
62	Sodium Superionic Conductors Based on Clusters. ACS Applied Materials & Interfaces, 2019, 11, 963-972.	4.0	44
63	Yttriumâ€"Sodium Halides as Promising Solid-State Electrolytes with High Ionic Conductivity and Stability for Na-Ion Batteries. Journal of Physical Chemistry Letters, 2020, 11, 3376-3383.	2.1	43
64	Tailoring Li adsorption on graphene. Physical Review B, 2014, 90, .	1.1	42
65	Common origin of negative thermal expansion and other exotic properties in ceramic and hybrid materials. Physical Review B, 2014, 89, .	1.1	42
66	Intrinsic ferromagnetism in two-dimensional carbon structures: Triangular graphene nanoflakes linked by carbon chains. Physical Review B, 2011, 84, .	1.1	40
67	Enhanced Hydrogen Storage on Li Functionalized BC₃ Nanotube. Journal of Physical Chemistry C, 2011, 115, 6136-6140.	1.5	38
68	Superhalogens: A Bridge between Complex Metal Hydrides and Li Ion Batteries. Journal of Physical Chemistry Letters, 2015, 6, 1119-1125.	2.1	38
69	New Phosphorene Allotropes Containing Ridges with 2- and 4-Coordination. Journal of Physical Chemistry C, 2015, 119, 24674-24680.	1.5	37
70	First-principles study of interaction of molecular hydrogen with Li-doped carbon nanotube peapod structures. Physical Review B, 2008, 77, .	1.1	36
71	The viability of aluminum Zintl anion moieties within magnesium-aluminum clusters. Journal of Chemical Physics, 2014, 140, 124309.	1.2	35
72	A new C=C embedded porphyrin sheet with superior oxygen reduction performance. Nano Research, 2015, 8, 2901-2912.	5.8	35

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73	Superhalogens as building blocks of two-dimensional organicâ€“inorganic hybrid perovskites for optoelectronics applications. Nanoscale, 2016, 8, 17836-17842.	2.8	34
74	Quantum Phase Transition in Germanene and Stanene Bilayer: From Normal Metal to Topological Insulator. Journal of Physical Chemistry Letters, 2016, 7, 1919-1924.	2.1	33
75	Antiperovskite K₃OI for K-Ion Solid State Electrolyte. Journal of Physical Chemistry Letters, 2021, 12, 7120-7126.	2.1	33
76	Sc-phthalocyanine sheet: Promising material for hydrogen storage. Applied Physics Letters, 2011, 99, .	1.5	32
77	B₁₂(SCN)₁₂^{â€“}: An Ultrastable Weakly Coordinating Dianion. Journal of Physical Chemistry C, 2017, 121, 7697-7702.	1.5	31
78	Stability of B₁₂(CN)₁₂^{2âˆ’}: Implications for Lithium and Magnesium Ion Batteries. Angewandte Chemie, 2016, 128, 3768-3772.	1.6	28
79	Temperature-dependent pressure-induced softening in Zn(CN)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	27
80	Argyrodite-type advanced lithium conductors and transport mechanisms beyond paddle-wheel effect. Nature Communications, 2022, 13, 2078.	5.8	27
81	Agâ€“Ag dispersive interaction and physical properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Ag</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:mi>Co</mml:mi><mml:mo>(</mml:mo> /><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	1.1	26
82	Self-consistent determination of Hubbard<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>U</mml:mi></mml:math>for explaining the anomalous magnetism of the Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>13</mml:mn></mml:msub></mml:math>cluster. Physical Review B, 2014, 89, .	1.1	26
83	Like Charges Attract?. Journal of Physical Chemistry Letters, 2016, 7, 2689-2695.	2.1	26
84	Unique magnetic coupling between Mn doped stannaspherenes Mn@Sn12. Applied Physics Letters, 2008, 92, .	1.5	25
85	Assembling Si₂BN nanoribbons into a 3D porous structure as a universal anode material for both Li- and Na-ion batteries with high performance. Nanoscale, 2020, 12, 19367-19374.	2.8	25
86	Structure and Properties of Egyptian Blue Monolayer Family: XCuSi₄O₁₀ (X =) Tj ETQq0 0 0 rgBT /Overlock 1	2.1	24
87	Role of ligands in the stability of B_nX_n and CB_{nâˆ’1}X_n (n = 5â€“10; X = H, F, CN) and their potential as building blocks of electrolytes in lithium ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 17937-17943.	1.3	24
88	Lattice Dynamic and Instability in Pentasilicene: A Light Single-Element Ferroelectric Material With High Curie Temperature. Physical Review Applied, 2019, 11, .	1.5	24
89	Conserved Vibrational Coherence in the Ultrafast Rearrangement of 2-Nitrotoluene Radical Cation. Journal of Physical Chemistry A, 2019, 123, 1140-1152.	1.1	24
90	Cluster-Inspired Design of High-Capacity Anode for Li-Ion Batteries. ACS Energy Letters, 2016, 1, 202-208.	8.8	23

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91	Colossal Stability of Gasâ€Phase Trianions: Superâ€Pnictogens. Angewandte Chemie - International Edition, 2017, 56, 13421-13425.	7.2	23
92	Unusual Magnetic Properties of Functionalized Graphene Nanoribbons. Journal of Physical Chemistry Letters, 2013, 4, 2482-2488.	2.1	22
93	Structure, Stability, and Property Modulations of Stoichiometric Graphene Oxide. Journal of Physical Chemistry C, 2013, 117, 1064-1070.	1.5	22
94	Co-mixing hydrogen and methane may double the energy storage capacity. Journal of Materials Chemistry A, 2018, 6, 8916-8922.	5.2	22
95	Ti-doped nano-porous graphene: A material for hydrogen storage and sensor. Frontiers of Physics, 2011, 6, 204-208.	2.4	21
96	Interpenetrating silicene networks: A topological nodal-line semimetal with potential as an anode material for sodium ion batteries. Physical Review Materials, 2018, 2, .	0.9	21
97	Pressure-Induced Magnetic Crossover Driven by Hydrogen Bonding in CuF2(H2O)2(3-chloropyridine). Scientific Reports, 2014, 4, 6054.	1.6	20
98	High-pressure lattice dynamic and thermodynamic properties of Ir by first-principles calculation. Physica B: Condensed Matter, 2010, 405, 732-737.	1.3	19
99	Giant Valley Splitting and Valley Polarized Plasmonics in Group V Transition-Metal Dichalcogenide Monolayers. Journal of Physical Chemistry Letters, 2017, 8, 5764-5770.	2.1	19
100	Hydrogenated C₆₀as High-Capacity Stable Anode Materials for Li Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6453-6460.	2.5	19
101	Stable Tetraâ€•and Pentaâ€Anions in the Gas Phase. Angewandte Chemie - International Edition, 2019, 58, 11248-11252.	7.2	19
102	A family of ionic supersalts with covalent-like directionality and unconventional multiferroicity. Nature Communications, 2021, 12, 1331.	5.8	19
103	Built-in electric field control of magnetic coupling in van der Waals semiconductors. Physical Review B, 2021, 103, .	1.1	19
104	A phenomenological expression to describe the temperature dependence of pressure-induced softening in negative thermal expansion materials. Journal of Physics Condensed Matter, 2014, 26, 115402.	0.7	18
105	Heavily Tungstenâ€Doped Sodium Thioantimonate Solidâ€State Electrolytes with Exceptionally Low Activation Energy for Ionic Diffusion. Angewandte Chemie - International Edition, 2021, 60, 26158-26166.	7.2	18
106	Mg-doped GaN nanostructures: Energetics, magnetism, and H2 adsorption. Applied Physics Letters, 2009, 94, 013108.	1.5	17
107	Atomic Clusters: Opportunities in the Face of Challenges. Journal of Physical Chemistry Letters, 2015, 6, 1549-1552.	2.1	17
108	Dissociation dynamics of 3- and 4-nitrotoluene radical cations: Coherently driven Câ€“NO2 bond homolysis. Journal of Chemical Physics, 2018, 148, 134305.	1.2	17

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109	Bipolar Magnetic Materials Based on 2D Ni[TCNE] Metalâ€"Organic Coordination Networks. Advanced Electronic Materials, 2018, 4, 1700323.	2.6	17
110	Plane-wave pseudopotential study for the structural stability of Hf: The role of spinâ€"orbit interaction. Physica B: Condensed Matter, 2011, 406, 1744-1748.	1.3	16
111	Unusual stability of multiply charged organo-metallic complexes. RSC Advances, 2015, 5, 44003-44008.	1.7	16
112	Atomic-Level Design of Water-Resistant Hybrid Perovskites for Solar Cells by Using Cluster Ions. Journal of Physical Chemistry Letters, 2017, 8, 3726-3733.	2.1	15
113	Super-alkalis as building blocks of one-dimensional hierarchical electrides. Nanoscale, 2018, 10, 22963-22969.	2.8	13
114	Realization of the Zn³⁺ oxidation state. Nanoscale, 2021, 13, 14041-14048.	2.8	13
115	Ferromagnetism in Two-Dimensional Carbon Chains Linked by 1,3,5-Benzenetriyl Units. Journal of Physical Chemistry C, 2011, 115, 19621-19625.	1.5	11
116	Electronic Structure and Stability of Mono- and Bimetallic Borohydrides and Their Underlying Hydrogen-Storage Properties: A Cluster Study. Journal of Physical Chemistry C, 2015, 119, 11056-11061.	1.5	11
117	From Halogen to Superhalogen Behavior of Organic Molecules Created by Functionalizing Benzene. ChemPhysChem, 2016, 17, 184-189.	1.0	11
118	Superhalogens as Building Blocks of Super Lewis Acids. ChemPhysChem, 2019, 20, 1607-1612.	1.0	11
119	Interfacial properties of penta-graphene-metal contacts. Journal of Applied Physics, 2019, 125, .	1.1	11
120	Theory-Guided Discovery of Novel Materials. Journal of Physical Chemistry Letters, 2021, 12, 6499-6513.	2.1	11
121	Rational Design of Stable Dianions and the Concept of Super-Chalcogens. Journal of Physical Chemistry A, 2019, 123, 5753-5761.	1.1	10
122	Discovery of a high-pressure phase of rutile-like CoO₂ and its potential as a cathode material. Journal of Materials Chemistry A, 2018, 6, 18449-18457.	5.2	9
123	Two-dimensional metal-free boron chalcogenides B₂X₃ (X = Se and Te) as photocatalysts for water splitting under visible light. Nanoscale, 2021, 13, 3627-3632.	2.8	9
124	Boron-Functionalized Organic Framework as a High-Performance Metal-Free Catalyst for N₂ Fixation. Journal of Physical Chemistry Letters, 2021, 12, 12142-12149.	2.1	9
125	Geometry, Electronic Properties, and Hydrogen Adsorption Properties of Li₃N-Based Nanostructures. Journal of Physical Chemistry C, 2010, 114, 19202-19205.	1.5	8
126	Valley contrasting in epitaxial growth of In/Tl homoatomic monolayer with anomalous Nernst conductance. Physical Review B, 2016, 94, .	1.1	7

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127	Assembling Ï€-Conjugated Molecules with Negative Gaussian Curvature for Efficient Carbon-Based Metal-Free Thermoelectric Material. Journal of Physical Chemistry C, 2016, 120, 27829-27833.	1.5	7
128	Designing New Metal Chalcogenide Nanoclusters through Atomâ€byâ€Atom Substitution. Small, 2021, 17, e2002927.	5.2	7
129	Robustness of Superatoms and Their Potential as Building Blocks of Materials: Al₁₃^{â€“} vs B(CN)₄^{â€“}. Journal of Physical Chemistry C, 2020, 124, 6435-6440.	1.5	7
130	Record-high stability and compactness of multiply-charged clusters aided by selected terminal groups. Physical Chemistry Chemical Physics, 2020, 22, 4880-4883.	1.3	7
131	Dependence of Magnetism on Doping Concentration in V-Doped Bulk ZnO. Materials Transactions, 2008, 49, 2469-2473.	0.4	6
132	Strain and carrier-induced coexistence of topologically insulating and superconducting phase in iodized Si(111) films. Nano Research, 2016, 9, 1578-1589.	5.8	6
133	Colossal Stability of Gasâ€Phase Trianions: Superâ€Pnictogens. Angewandte Chemie, 2017, 129, 13606-13610.	1.6	6
134	Ligand stabilization of manganocene dianions â€“ in defiance of the 18-electron rule. Physical Chemistry Chemical Physics, 2019, 21, 24300-24307.	1.3	6
135	A high-pressure induced stable phase of Li₂MnSiO₄ as an effective poly-anion cathode material from simulations. Journal of Materials Chemistry A, 2019, 7, 16406-16413.	5.2	6
136	SbCl₄: An Exceptional Superhalogen as the Building Block of a Mixed Valence Supercrystal with Unconventional Ferroelectricity. Journal of Physical Chemistry Letters, 2022, 13, 1049-1056.	2.1	6
137	Indicator to estimate temperature sensitivity of resonance in temperature measurement by neutron resonance spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 528-538.	0.6	5
138	Magnetic properties of two dimensional silicon carbide triangular nanoflakes-based kagome lattices. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	5
139	B(SCN)₄^{â€“}: A New Weakly Coordinating Anion in the Tetracyanoborate Family. Journal of Physical Chemistry C, 2018, 122, 13371-13375.	1.5	5
140	Role of Size and Composition on the Design of Superalkalis. Journal of Physical Chemistry A, 2021, 125, 5886-5894.	1.1	5
141	Binding of noble gas atoms by superhalogens. Journal of Chemical Physics, 2021, 155, 014304.	1.2	5
142	Super-electrophiles of tri- and tetra-anions stabilized by selected terminal groups and their role in binding noble gas atoms. Physical Chemistry Chemical Physics, 2021, 23, 21496-21500.	1.3	5
143	Interfacial triferroicity in monolayer chromium dihalide. Physical Review B, 2022, 105, .	1.1	5
144	Substituentâ€Stabilized Organic Dianions in the Gas Phase and Their Potential Use as Electrolytes in Lithiumâ€Ion Batteries. ChemPhysChem, 2016, 17, 2992-2997.	1.0	4

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145	Effect of Coulomb Correlation on the Magnetic Properties of Mn Clusters. Journal of Physical Chemistry A, 2018, 122, 4350-4356.	1.1	4
146	Clusters and Nanomaterials for Sustainable Energy. ACS Energy Letters, 2020, 5, 428-429.	8.8	4
147	Imidazole-graphyne: a new 2D carbon nitride with a direct bandgap and strong IR refraction. Physical Chemistry Chemical Physics, 2021, 23, 10274-10280.	1.3	4
148	Signature of Au as a Halogen. Journal of Physical Chemistry Letters, 0, , 4721-4728.	2.1	4
149	Rational Design of Stable Dianions by Functionalizing Polycyclic Aromatic Hydrocarbons. ChemPhysChem, 2017, 18, 1937-1942.	1.0	3
150	Boronated holey graphene: a case of 2D ferromagnetic metal. Physical Chemistry Chemical Physics, 2019, 21, 21128-21135.	1.3	3
151	Metallo-boranes: a class of unconventional superhalogens defying electron counting rules. Nanoscale, 2022, 14, 1767-1778.	2.8	3
152	Atomically Precise Core-Tailored Metal Chalcogenide Nanoclusters: Tuning the Electronic Structure and Magnetic Properties. Journal of Physical Chemistry C, 2022, 126, 6512-6522.	1.5	3
153	Rational Design of Endohedral Superhalogens without Using Metal Cations and Electron Counting Rules. Journal of Physical Chemistry A, 0, , .	1.1	3
154	Halide sublattice dynamics drive Li-ion transport in antiperovskites. Journal of Materials Chemistry A, 2022, 10, 15731-15742.	5.2	3
155	COMPUTATIONAL DESIGN OF NANOMATERIALS FOR HYDROGEN STORAGE. , 2009, , .		2
156	Catalytic activities of platinum nanotubes: a density functional study. European Physical Journal B, 2015, 88, 1.	0.6	2
157	Heavily Tungstenâ€Doped Sodium Thioantimonate Solidâ€State Electrolytes with Exceptionally Low Activation Energy for Ionic Diffusion. Angewandte Chemie, 2021, 133, 26362-26370.	1.6	2
158	Superatomic chemistry. Journal of the Indian Chemical Society, 2022, 99, 100350.	1.3	2
159	Halogen-Free Electrolytes Based on Modified Boranes for Alkali-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 5112-5121.	1.5	2
160	Probing the existence of energetically degenerate cluster isomers by chemical tagging. Applied Physics Letters, 2010, 97, 223104.	1.5	1
161	Electrical transition of (3,3) carbon nanotube on patterned hydrogen terminated Si(001)-2â€‰Ã—â€‰1 driven by electric field. Journal of Applied Physics, 2012, 111, 123717.	1.1	1
162	Potential of ZrO clusters as replacement Pd catalyst. Journal of Chemical Physics, 2014, 141, 034301.	1.2	1

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163	Electric field-induced metallic transition of (3,3) carbon nanotube supported on patterned hydrogen-terminated Si(001):1ÂÃ—Â1 surface. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	0
164	Chainâ€like structures of gold supported by silicon substrate (Phys. Status Solidi B 5/2014). Physica Status Solidi (B): Basic Research, 2014, 251, .	0.7	0
165	Chainâ€like structures of gold supported by silicon substrate. Physica Status Solidi (B): Basic Research, 2014, 251, 924-932.	0.7	0
166	Titelbild: Colossal Stability of Gasâ€Phase Trianions: Superâ€Pnictogens (Angew. Chem. 43/2017). Angewandte Chemie, 2017, 129, 13333-13333.	1.6	0
167	Stable Tetraâ€•and Pentaâ€Anions in the Gas Phase. Angewandte Chemie, 2019, 131, 11370-11374.	1.6	0
168	Condensed Matter in Energy, Environment, and Beyond. Advances in Condensed Matter Physics, 2019, 2019, 1-2.	0.4	0
169	Stable Tetraâ€•and Pentaâ€Anions in the Gas Phase. Angewandte Chemie, 2019, 131, 11246.	1.6	0