

Qiang Sun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/157221/publications.pdf>

Version: 2024-02-01

353
papers

17,282
citations

15504

65
h-index

19749

117
g-index

365
all docs

365
docs citations

365
times ranked

17110
citing authors

#	ARTICLE	IF	CITATIONS
1	Clustering of Ti on a C60Surface and Its Effect on Hydrogen Storage. Journal of the American Chemical Society, 2005, 127, 14582-14583.	13.7	675
2	First-Principles Study of Hydrogen Storage on Li12C60. Journal of the American Chemical Society, 2006, 128, 9741-9745.	13.7	533
3	Epitaxial Monolayer MoS ₂ on Mica with Novel Photoluminescence. Nano Letters, 2013, 13, 3870-3877.	9.1	512
4	Super Atomic Clusters: Design Rules and Potential for Building Blocks of Materials. Chemical Reviews, 2018, 118, 5755-5870.	47.7	426
5	Vacancy-induced magnetism in ZnO thin films and nanowires. Physical Review B, 2008, 77, .	3.2	409
6	Magnetism of Phthalocyanine-Based Organometallic Single Porous Sheet. Journal of the American Chemical Society, 2011, 133, 15113-15119.	13.7	350
7	Freestanding film made by necklace-like N-doped hollow carbon with hierarchical pores for high-performance potassium-ion storage. Energy and Environmental Science, 2019, 12, 1605-1612.	30.8	349
8	Lithium Chlorides and Bromides as Promising Solid-State Chemistries for Fast Ion Conductors with Good Electrochemical Stability. Angewandte Chemie - International Edition, 2019, 58, 8039-8043.	13.8	322
9	Recent Advances in Breaking Scaling Relations for Effective Electrochemical Conversion of CO ₂ . Advanced Energy Materials, 2016, 6, 1600463.	19.5	308
10	Heterogeneous catalytic conversion of CO ₂ : a comprehensive theoretical review. Nanoscale, 2015, 7, 8663-8683.	5.6	306
11	Amino acid modified copper electrodes for the enhanced selective electroreduction of carbon dioxide towards hydrocarbons. Energy and Environmental Science, 2016, 9, 1687-1695.	30.8	290
12	Electronic and magnetic properties of a BN sheet decorated with hydrogen and fluorine. Physical Review B, 2010, 81, .	3.2	278
13	Exfoliating biocompatible ferromagnetic Cr-trihalide monolayers. Physical Chemistry Chemical Physics, 2016, 18, 8777-8784.	2.8	273
14	Solid Oxide Fuel Cell Anode Materials for Direct Hydrocarbon Utilization. Advanced Energy Materials, 2012, 2, 1156-1181.	19.5	253
15	Inoculation treatment of an additively manufactured 2024 aluminium alloy with titanium nanoparticles. Acta Materialia, 2020, 196, 1-16.	7.9	247
16	CO ₂ Electroreduction Performance of Transition Metal Dimers Supported on Graphene: A Theoretical Study. ACS Catalysis, 2015, 5, 6658-6664.	11.2	227
17	Direct Observation of Key Reaction Intermediates on Gold Clusters. Journal of the American Chemical Society, 2003, 125, 2848-2849.	13.7	206
18	A Three-Dimensional Carbon Framework Constructed by N/S Co-doped Graphene Nanosheets with Expanded Interlayer Spacing Facilitates Potassium Ion Storage. ACS Energy Letters, 2020, 5, 1653-1661.	17.4	202

#	ARTICLE	IF	CITATIONS
19	Potential of AlN Nanostructures as Hydrogen Storage Materials. ACS Nano, 2009, 3, 621-626.	14.6	201
20	Tuning electronic and magnetic properties of graphene by surface modification. Applied Physics Letters, 2009, 95, .	3.3	199
21	Ferromagnetism in MnX ₂ (X = S, Se) monolayers. Physical Chemistry Chemical Physics, 2014, 16, 4990.	2.8	199
22	Strong Phonon-Phonon Interactions Securing Extraordinary Thermoelectric Ge _{1-x} Sb _x Te with Zn-Alloying-Induced Band Alignment. Journal of the American Chemical Society, 2019, 141, 1742-1748.	13.7	199
23	Electronic structures and bonding of graphyne sheet and its BN analog. Journal of Chemical Physics, 2011, 134, 174701.	3.0	182
24	Functionalized Graphitic Carbon Nitride for Efficient Energy Storage. Journal of Physical Chemistry C, 2013, 117, 6055-6059.	3.1	171
25	On-Surface Formation of One-Dimensional Polyphenylene through Bergman Cyclization. Journal of the American Chemical Society, 2013, 135, 8448-8451.	13.7	154
26	Dehalogenative Homocoupling of Terminal Alkynyl Bromides on Au(111): Incorporation of Acetylenic Scaffolding into Surface Nanostructures. ACS Nano, 2016, 10, 7023-7030.	14.6	150
27	High Thermoelectric Performance in p-type Polycrystalline Cd-doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. Advanced Energy Materials, 2019, 9, 1803242.	19.5	150
28	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. Joule, 2020, 4, 2030-2043.	24.0	138
29	Ternary MOF-on-MOF heterostructures with controllable architectural and compositional complexity via multiple selective assembly. Nature Communications, 2020, 11, 4971.	12.8	138
30	Unravelling Orientation Distribution and Merging Behavior of Monolayer MoS ₂ Domains on Sapphire. Nano Letters, 2015, 15, 198-205.	9.1	136
31	Free convection in a triangle cavity filled with a porous medium saturated with nanofluids with flush mounted heater on the wall. International Journal of Thermal Sciences, 2011, 50, 2141-2153.	4.9	134
32	Symmetry-breaking induced large piezoelectricity in Janus tellurene materials. Physical Chemistry Chemical Physics, 2019, 21, 1207-1216.	2.8	134
33	Theoretical Study of Hydrogen Storage in Ca-Coated Fullerenes. Journal of Chemical Theory and Computation, 2009, 5, 374-379.	5.3	130
34	All-carbon-based porous topological semimetal for Li-ion battery anode material. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 651-656.	7.1	125
35	On-Surface Synthesis of Carbon Nanostructures. Advanced Materials, 2018, 30, e1705630.	21.0	121
36	Exfoliated graphene-supported Pt and Pt-based alloys as electrocatalysts for direct methanol fuel cells. Carbon, 2013, 52, 595-604.	10.3	117

#	ARTICLE	IF	CITATIONS
37	A density functional theory study of the tunable structure, magnetism and metal-insulator phase transition in VS ₂ monolayers induced by in-plane biaxial strain. Nano Research, 2015, 8, 1348-1356.	10.4	116
38	Curvature-Dependent Selectivity of CO ₂ Electrochemical Reduction on Cobalt Porphyrin Nanotubes. ACS Catalysis, 2016, 6, 6294-6301.	11.2	113
39	Interactions of Au cluster anions with oxygen. Journal of Chemical Physics, 2004, 120, 6510-6515.	3.0	107
40	N-Doped Carbon Nanosheet Networks with Favorable Active Sites Triggered by Metal Nanoparticles as Bifunctional Oxygen Electrocatalysts. ACS Energy Letters, 2018, 3, 2914-2920.	17.4	107
41	High-performance in n-type PbTe-based thermoelectric materials achieved by synergistically dynamic doping and energy filtering. Nano Energy, 2022, 91, 106706.	16.0	107
42	Storage of Molecular Hydrogen in B ^N Cage: Energetics and Thermal Stability. Nano Letters, 2005, 5, 1273-1277.	9.1	106
43	On-surface aryl-aryl coupling via selective C-H activation. Chemical Communications, 2014, 50, 11825-11828.	4.1	106
44	C3B monolayer as an anchoring material for lithium-sulfur batteries. Carbon, 2018, 129, 38-44.	10.3	105
45	Phase stability and Raman vibration of the molybdenum ditelluride (MoTe ₂) monolayer. Physical Chemistry Chemical Physics, 2015, 17, 14866-14871.	2.8	104
46	Bottom-Up Synthesis of Metalated Carbyne. Journal of the American Chemical Society, 2016, 138, 1106-1109.	13.7	104
47	Bi _{0.5} Sb _{1.5} Te ₃ /PEDOT:PSS-based flexible thermoelectric film and device. Chemical Engineering Journal, 2020, 397, 125360.	12.7	104
48	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. Energy and Environmental Science, 2020, 13, 1856-1864.	30.8	103
49	A Honeycomb BeN ₂ Sheet with a Desirable Direct Band Gap and High Carrier Mobility. Journal of Physical Chemistry Letters, 2016, 7, 2664-2670.	4.6	100
50	CO ₂ Electroreduction Performance of Phthalocyanine Sheet with Mn Dimer: A Theoretical Study. Journal of Physical Chemistry C, 2017, 121, 3963-3969.	3.1	95
51	Biomimetic Sn ₄ P ₃ Anchored on Carbon Nanotubes as an Anode for High-Performance Sodium-Ion Batteries. ACS Nano, 2020, 14, 8826-8837.	14.6	95
52	Bi ₂ O ₂ Se nanosheet: An excellent high-temperature n-type thermoelectric material. Applied Physics Letters, 2018, 112, .	3.3	94
53	Functionalized heterofullerenes for hydrogen storage. Applied Physics Letters, 2009, 94, .	3.3	89
54	Site-specific growth of MOF-on-MOF heterostructures with controllable nano-architectures: beyond the combination of MOF analogues. Chemical Science, 2020, 11, 3680-3686.	7.4	89

#	ARTICLE	IF	CITATIONS
55	Electrocatalytic Interlayer with Fast Lithium Polysulfides Diffusion for Lithium Sulfur Batteries to Enhance Electrochemical Kinetics under Lean Electrolyte Conditions. <i>Advanced Functional Materials</i> , 2020, 30, 2000742. Magnetic properties of transition-metal-doped MnO_2 nanorods. xmlns:mml="http://www.w3.org/1998/Math/MathML"	14.9	87

56



#	ARTICLE	IF	CITATIONS
73	Formation of polyphenyl chains through hierarchical reactions: Ullmann coupling followed by cross-dehydrogenative coupling. <i>Chemical Communications</i> , 2015, 51, 495-498.	4.1	58
74	Production of sustainable methane from renewable energy and captured carbon dioxide with the use of Solid Oxide Electrolyzer: A thermodynamic assessment. <i>Energy</i> , 2015, 82, 714-721.	8.8	58
75	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. <i>Energy and Environmental Science</i> , 2020, 13, 3480-3488.	30.8	57
76	Superhalogen-based lithium superionic conductors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13373-13381.	10.3	55
77	Strain-Induced Spin Crossover in Phthalocyanine-Based Organometallic Sheets. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3109-3114.	4.6	54
78	SiTe monolayers: Si-based analogues of phosphorene. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6353-6361.	5.5	54
79	Structure of SiAu ₁₆ : Can a silicon atom be stabilized in a gold cage?. <i>Journal of Chemical Physics</i> , 2007, 127, 214706.	3.0	52
80	Photoelectron spectroscopy and density functional calculations of CuSi _n (n = 4-18) clusters. <i>Journal of Chemical Physics</i> , 2012, 136, 104308.	3.0	52
81	Mixed convection in gravity-driven nano-liquid film containing both nanoparticles and gyrotactic microorganisms. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 163-178.	3.6	52
82	On-Surface Formation of Cumulene by Dehalogenative Homocoupling of Alkenyl gem-Dibromides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12165-12169.	13.8	52
83	High Carrier Mobility and High Figure of Merit in the CuBiSe ₂ Alloyed GeTe. <i>Advanced Energy Materials</i> , 2021, 11, 2102913.	19.5	52
84	Hierarchical Structures Advance Thermoelectric Properties of Porous n-type β -Ag ₂ Se. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51523-51529.	8.0	51
85	Direct Formation of C [≡] C Triple-Bonded Structural Motifs by On-Surface Dehalogenative Homocouplings of Tribromomethyl-Substituted Arenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4035-4038.	13.8	50
86	Cu atomic chains supported on β -borophene sheets for effective CO ₂ electroreduction. <i>Nanoscale</i> , 2018, 10, 11064-11071.	5.6	50
87	Physical principles for the calculation of equilibrium potential for co-electrolysis of steam and carbon dioxide in a Solid Oxide Electrolyzer Cell (SOEC). <i>Electrochimica Acta</i> , 2014, 147, 490-497.	5.2	49
88	The superior catalytic CO oxidation capacity of a Cr-phthalocyanine porous sheet. <i>Scientific Reports</i> , 2014, 4, 4098.	3.3	49
89	Rational Electronic and Structural Designs Advance BiCuSeO Thermoelectrics. <i>Advanced Functional Materials</i> , 2021, 31, 2101289.	14.9	48
90	On-surface formation of two-dimensional polymer via direct C-H activation of metal phthalocyanine. <i>Chemical Communications</i> , 2015, 51, 2836-2839.	4.1	46

#	ARTICLE	IF	CITATIONS
91	Optimization of sodium hydroxide for securing high thermoelectric performance in polycrystalline Sn _{1-x} Se via anisotropy and vacancy synergy. <i>Informa-Materially</i> , 2020, 2, 1201-1215.	17.3	46
92	High-temperature superconductivity in heavily N- or B-doped graphene. <i>Physical Review B</i> , 2015, 92, .	3.2	45
93	High-temperature electrolysis of synthetic seawater using solid oxide electrolyzer cells. <i>Journal of Power Sources</i> , 2017, 342, 79-87.	7.8	45
94	Energy and exergy analysis of Solid Oxide Electrolyser Cell (SOEC) working as a CO ₂ mitigation device. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14518-14527.	7.1	44
95	Carrier induced magnetic coupling transitions in phthalocyanine-based organometallic sheet. <i>Nanoscale</i> , 2014, 6, 328-333.	5.6	44
96	Identifying the Ground State Geometry of a MoN ₂ Sheet through a Global Structure Search and Its Tunable p-Electron Half-Metallicity. <i>Chemistry of Materials</i> , 2017, 29, 8588-8593.	6.7	44
97	Performance of power generation extension system based on solid-oxide electrolyzer cells under various design conditions. <i>Energy</i> , 2013, 55, 647-657.	8.8	43
98	Ultralow lattice thermal conductivity induced high thermoelectric performance in the $\sqrt{2}\times\sqrt{2}$ Cu ₂ S monolayer. <i>Nanoscale</i> , 2019, 11, 10306-10313.	5.6	43
99	Yttrium-Sodium Halides as Promising Solid-State Electrolytes with High Ionic Conductivity and Stability for Na-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3376-3383.	4.6	43
100	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. <i>Advanced Energy Materials</i> , 2021, 11, 2100544.	19.5	43
101	Non-singular boundary integral methods for fluid mechanics applications. <i>Journal of Fluid Mechanics</i> , 2012, 696, 468-478.	3.4	42
102	Tailoring Li adsorption on graphene. <i>Physical Review B</i> , 2014, 90, .	3.2	42
103	Boron-graphdiyne as an anode material for Li, Na, and K ion batteries with high capacities and low diffusion barriers. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	42
104	Optimizing Electronic Quality Factor toward High Performance Ge _{1-x} Sn _x /Ta _x Sb _{1-x} Te Thermoelectrics: The Role of Transition Metal Doping. <i>Advanced Materials</i> , 2021, 33, e2102575.	2.0	41
105	Intrinsic ferromagnetism in two-dimensional carbon structures: Triangular graphene nanoflakes linked by carbon chains. <i>Physical Review B</i> , 2011, 84, .	3.2	40
106	Ni-induced supramolecular structural transformation of cytosine on Au(111): from one-dimensional chains to zero-dimensional clusters. <i>Chemical Communications</i> , 2014, 50, 3242.	4.1	39
107	Enhanced Ferromagnetism in a Mn ₃ C ₁₂ N ₁₂ H ₁₂ Sheet. <i>ChemPhysChem</i> , 2015, 16, 614-620.	2.1	39
108	First-principles study of magnetic properties in V-doped ZnO. <i>Applied Physics Letters</i> , 2007, 91, 063116.	3.3	38

#	ARTICLE	IF	CITATIONS
109	Enhanced Hydrogen Storage on Li Functionalized BC ₃ Nanotube. Journal of Physical Chemistry C, 2011, 115, 6136-6140.	3.1	38
110	Atomic-Scale Investigation on the Facilitation and Inhibition of Guanine Tautomerization at Au(111) Surface. ACS Nano, 2014, 8, 1804-1808.	14.6	38
111	Design of Janus Nanoparticles with Atomic Precision: Tungsten-Doped Gold Nanostructures. ACS Nano, 2008, 2, 341-347.	14.6	37
112	Chain growth mechanism on bimetallic surfaces for higher alcohol synthesis from syngas. Catalysis Communications, 2015, 61, 57-61.	3.3	37
113	Cyclic and linear polymeric structures of Al _n H _{3n} (n=3-7) molecules. Physical Review A, 2003, 67, .	2.5	36
114	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. ACS Nano, 2019, 13, 13083-13091.	14.6	36
115	Topological semimetal porous carbon as a high-performance anode for Li-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14253-14259.	10.3	36
116	Ligand induced ferromagnetism in ZnO nanostructures. Journal of Chemical Physics, 2008, 129, 164714.	3.0	35
117	Formation of a G-Quartet-Fe Complex and Modulation of Electronic and Magnetic Properties of the Fe Center. ACS Nano, 2014, 8, 11799-11805.	14.6	35
118	A new C=C embedded porphyrin sheet with superior oxygen reduction performance. Nano Research, 2015, 8, 2901-2912.	10.4	35
119	Enhanced CO ₂ electroreduction on armchair graphene nanoribbons edge-decorated with copper. Nano Research, 2017, 10, 1641-1650.	10.4	35
120	Simultaneously achieving high ZT and mechanical hardness in highly alloyed GeTe with symmetric nanodomains. Chemical Engineering Journal, 2022, 441, 136131.	12.7	35
121	Structural and bonding properties of ScSi ⁿ clusters: photoelectron spectroscopy and density functional calculations. Chinese Physics B, 2011, 20, 043102.	1.4	34
122	How to fabricate a semihydrogenated graphene sheet? A promising strategy explored. Applied Physics Letters, 2012, 101, 073114.	3.3	34
123	Three-dimensional stagnation flow of a nanofluid containing both nanoparticles and microorganisms on a moving surface with anisotropic slip. Applied Mathematical Modelling, 2016, 40, 4136-4150.	4.2	34
124	A highly efficient porous rod-like Ce-doped ZnO photocatalyst for the degradation of dye contaminants in water. Beilstein Journal of Nanotechnology, 2019, 10, 1157-1165.	2.8	34
125	Structures of neutral and anionic Au ₁₆ clusters revisited. Journal of Chemical Physics, 2010, 132, 194306.	3.0	33
126	Reactive molten salt synthesis of natural graphite flakes decorated with SnO ₂ nanorods as high performance, low cost anode material for lithium ion batteries. Journal of Alloys and Compounds, 2019, 792, 1213-1222.	5.5	33

#	ARTICLE	IF	CITATIONS
127	Sc-phthalocyanine sheet: Promising material for hydrogen storage. Applied Physics Letters, 2011, 99, .	3.3	32
128	Recent advances in hybrid grapheneâ€”BN planar structures. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, 65-82.	14.6	32
129	High-pressure-assisted design of porous topological semimetal carbon for Li-ion battery anode with high-rate performance. Physical Review Materials, 2018, 2, .	2.4	32
130	Single-molecule insight into Wurtz reactions on metal surfaces. Physical Chemistry Chemical Physics, 2016, 18, 2730-2735.	2.8	31
131	High Thermoelectric Figure of Merit Achieved in Cu ₂ S _{1-x} Te _x Alloys Synthesized by Mechanical Alloying and Spark Plasma Sintering. ACS Applied Materials & Interfaces, 2018, 10, 32201-32211.	8.0	31
132	Superstructured Macroporous Carbon Rods Composed of Defective Graphitic Nanosheets for Efficient Oxygen Reduction Reaction. Advanced Science, 2021, 8, e2100120.	11.2	31
133	Pre-combustion CO ₂ capture by transition metal ions embedded in phthalocyanine sheets. Journal of Chemical Physics, 2012, 136, 234703.	3.0	30
134	Recent advances in computational studies of organometallic sheets: Magnetism, adsorption and catalysis. Computational Materials Science, 2016, 112, 492-502.	3.0	29
135	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. Applied Physics Reviews, 2021, 8, .	11.3	29
136	Boundary regularized integral equation formulation of the Helmholtz equation in acoustics. Royal Society Open Science, 2015, 2, 140520.	2.4	28
137	Solventless Formation of Gâ€”Quartet Complexes Based on Alkali and Alkaline Earth Salts on Au(111). ChemPhysChem, 2015, 16, 2099-2105.	2.1	28
138	Controllable Scission and Seamless Stitching of Metalâ€”Organic Clusters by STM Manipulation. Angewandte Chemie - International Edition, 2015, 54, 6526-6530.	13.8	28
139	Nonsingular Field-Only Surface Integral Equations for Electromagnetic Scattering. IEEE Transactions on Antennas and Propagation, 2017, 65, 972-977.	5.1	28
140	A cost-effective Fe-rich compositionally complicated alloy with superior high-temperature oxidation resistance. Corrosion Science, 2021, 180, 109190.	6.6	28
141	Mechanical alloying boosted SnTe thermoelectrics. Materials Today Physics, 2021, 17, 100340.	6.0	28
142	Graphite Nanosheets as Multifunctional Nanoinclusions to Boost the Thermoelectric Performance of the Shearâ€”Exfoliated Bi ₂ O ₂ Se. Advanced Functional Materials, 2022, 32, .	14.9	28
143	Stability and properties of 2D porous nanosheets based on tetraoxa[8]circulene analogues. Nanoscale, 2014, 6, 14962-14970.	5.6	27
144	Lithium Chlorides and Bromides as Promising Solidâ€”State Chemistries for Fast Ion Conductors with Good Electrochemical Stability. Angewandte Chemie, 2019, 131, 8123-8127.	2.0	27

#	ARTICLE	IF	CITATIONS
145	Engineering of three-dimensional nano hybrids: Co ₉ S ₈ nanocrystal coated hollow carbon nanosphere for advanced lithium storage. Applied Surface Science, 2020, 514, 146092.	6.1	27
146	Simultaneously enhanced strength and plasticity of Ag ₂ Se-based thermoelectric materials endowed by nano-twinned CuAgSe secondary phase. Acta Materialia, 2021, 220, 117335.	7.9	27
147	Atomic-scale structures and interactions between the guanine quartet and potassium. Chemical Communications, 2013, 49, 7210.	4.1	26
148	Self-consistent determination of Hubbard U for explaining the anomalous magnetism of the Gd $13d$ cluster. Physical Review B, 2014, 89, .	3.2	26
149	The stereoselective synthesis of dienes through dehalogenative homocoupling of terminal alkenyl bromides on Cu(110). Chemical Communications, 2016, 52, 6009-6012.	4.1	26
150	Edge-State-Enhanced CO ₂ Electroreduction on Topological Nodal-Line Semimetal Cu ₂ Si Nanoribbons. Journal of Physical Chemistry C, 2019, 123, 2837-2842.	3.1	26
151	A novel lapping process for single-crystal sapphire using hybrid nanoparticle suspensions. International Journal of Mechanical Sciences, 2021, 191, 106099.	6.7	26
152	A simple d-band model for the magnetic property of ferromagnetic transition-metal clusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 205, 308-312.	2.1	25
153	First-principles study of the magnetic and the electronic properties of Fe _m /Au _n multilayers. Journal of Magnetism and Magnetic Materials, 1998, 183, 42-48.	2.3	25
154	N-doped ZnO thin films and nanowires: energetics, impurity distribution and magnetism. New Journal of Physics, 2009, 11, 063035.	2.9	25
155	First-principles study of hydrogen adsorption in metal-doped COF-10. Journal of Chemical Physics, 2010, 133, 154706.	3.0	25
156	A robust and non-singular formulation of the boundary integral method for the potential problem. Engineering Analysis With Boundary Elements, 2014, 43, 117-123.	3.7	25
157	A new porous metallic silicon dicarbide for highly efficient Li-ion battery anode identified by targeted structure search. Carbon, 2018, 140, 680-687.	10.3	25
158	Outstanding thermoelectric properties of solvothermal-synthesized Sn _{1-3x} In _x Ag _{2x} Te micro-crystals through defect engineering and band tuning. Journal of Materials Chemistry A, 2020, 8, 3978-3987.	10.3	25
159	Assembling Si ₂ BN 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.	5.6	25
160	Structure and Properties of Egyptian Blue Monolayer Family: XCuSi ₄ O ₁₀ (X =) Tj ETQq0 0 0 rgBT /Qyerlock 10	4.6	24
161	A box model for representing estuarine physical processes in Earth system models. Ocean Modelling, 2017, 112, 139-153.	2.4	24
162	Direct Formation of C=C Double-Bonded Structural Motifs by On-Surface Dehalogenative Homocoupling of <i>gem</i> -Dibromomethyl Molecules. ACS Nano, 2018, 12, 7959-7966.	14.6	24

#	ARTICLE	IF	CITATIONS
163	Scanning tunneling microscopy and Raman spectroscopy of polymeric sp^2 carbon atomic wires synthesized on the Au(111) surface. <i>Nanoscale</i> , 2019, 11, 18191-18200.	5.6	24
164	Real-Space Evidence of Rare Guanine Tautomer Induced by Water. <i>ACS Nano</i> , 2016, 10, 3776-3782.	14.6	23
165	The acceleration of methanol synthesis and C_2 oxygenates formation on copper grain boundary from syngas. <i>Applied Catalysis A: General</i> , 2016, 509, 97-104.	4.3	23
166	Robust multiscale field-only formulation of electromagnetic scattering. <i>Physical Review B</i> , 2017, 95, .	3.2	23
167	On-surface synthesis of polyazulene with 2,6-connectivity. <i>Chemical Communications</i> , 2019, 55, 13466-13469.	4.1	23
168	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. <i>ACS Applied Energy Materials</i> , 2020, 3, 2192-2199.	5.1	23
169	Achieving high-performance n-type PbTe via synergistically optimizing effective mass and carrier concentration and suppressing lattice thermal conductivity. <i>Chemical Engineering Journal</i> , 2022, 428, 132601.	12.7	23
170	Tight-binding study of the structural and magnetic properties of vanadium clusters. <i>Physica B: Condensed Matter</i> , 1995, 215, 377-382.	2.7	22
171	Hydrogen Storage in Organometallic Structures Grafted on Silsesquioxanes. <i>Chemistry of Materials</i> , 2007, 19, 3074-3078.	6.7	22
172	Porphyrim-based porous sheet: Optoelectronic properties and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3689-3696.	7.1	22
173	Single-layer BiOBr: An effective <i>p</i> -type 2D thermoelectric material. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	22
174	Gaussian approximation potential for studying the thermal conductivity of silicene. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	21
175	Structural Evolution of High-Performance Mn-Alloyed Thermoelectric Materials: A Case Study of SnTe. <i>Small</i> , 2021, 17, e2100525.	10.0	21
176	Thermoelectric performance of p-type $(\text{Bi,Sb})_2\text{Te}_3$ incorporating amorphous Sb_2S_3 nanospheres. <i>Chemical Engineering Journal</i> , 2022, 430, 132738.	12.7	21
177	Interpenetrating silicene networks: A topological nodal-line semimetal with potential as an anode material for sodium ion batteries. <i>Physical Review Materials</i> , 2018, 2, .	2.4	21
178	Field-only surface integral equations: scattering from a dielectric body. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 284.	1.5	21
179	Field-only surface integral equations: scattering from a perfect electric conductor. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 276.	1.5	21
180	Hydrogen storage in Al-N cage based nanostructures. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	20

#	ARTICLE	IF	CITATIONS
181	Ricocheting Droplets Moving on Super-Repellent Surfaces. <i>Advanced Science</i> , 2019, 6, 1901846.	11.2	20
182	Generalized Hybrid Nanofluid Model with the Application of Fully Developed Mixed Convection Flow in a Vertical Microchannel*. <i>Communications in Theoretical Physics</i> , 2019, 71, 903.	2.5	20
183	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36370-36379.	8.0	20
184	Borophene-Based Three-Dimensional Porous Structures as Anode Materials for Alkali Metal-Ion Batteries with Ultrahigh Capacity. <i>Chemistry of Materials</i> , 2021, 33, 2976-2983.	6.7	20
185	Photoelectron spectroscopy and theoretical study of $M(\text{IO})_3 \cdot 2\text{H}_2\text{O}$ ($M = \text{H, Li, Na, K}$): Structural evolution, optical isomers, and hyperhalogen behavior. <i>Journal of Chemical Physics</i> , 2013, 139, 044312.	3.0	19
186	Giant magnetocrystalline anisotropy of 5d transition metal-based phthalocyanine sheet. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17182-17189.	2.8	19
187	Heterogeneous lamella design to tune the mechanical behaviour of a new cost-effective compositionally complicated alloy. <i>Journal of Materials Science and Technology</i> , 2022, 96, 113-125.	10.7	19
188	Identification of Molecular Adsorption Geometries and Intermolecular Hydrogen Bonding Configurations by In Situ STM Manipulation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7442-7445.	13.8	18
189	A stable metallic 3D porous BPC as a universal anode material for Li, Na, and K ion batteries with high performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25824-25830.	10.3	18
190	Ki-67 index, progesterone receptor expression, histologic grade and tumor size in predicting breast cancer recurrence risk: A consecutive cohort study. <i>Cancer Communications</i> , 2020, 40, 181-193.	9.2	18
191	Electronic structures of perovskite-type ScRh_3B_x ($0 \leq x \leq 1$): X-ray photoelectron and nuclear magnetic resonance spectroscopies and ab initio band calculation. <i>Journal of Alloys and Compounds</i> , 2002, 339, 317-326.	5.5	17
192	Mg-doped GaN nanostructures: Energetics, magnetism, and H ₂ adsorption. <i>Applied Physics Letters</i> , 2009, 94, 013108.	3.3	17
193	Using carbon chains to mediate magnetic coupling in zigzag graphene nanoribbons. <i>Applied Physics Letters</i> , 2012, 100, 173106.	3.3	17
194	Absorption induced modulation of magnetism in two-dimensional metal-phthalocyanine porous sheets. <i>Journal of Chemical Physics</i> , 2013, 138, 204706.	3.0	17
195	New allotropes of Li_2MnO_3 as cathode materials with better cycling performance predicted in high pressure synthesis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16936-16943.	10.3	17
196	Bipolar Magnetic Materials Based on 2D Ni[TCNE] Metal-Organic Coordination Networks. <i>Advanced Electronic Materials</i> , 2018, 4, 1700323.	5.1	17
197	Compositional Varied Core-Shell InGaP Nanowires Grown by Metal-Organic Chemical Vapor Deposition. <i>Nano Letters</i> , 2019, 19, 3782-3788.	9.1	17
198	Surface thermal stability of nickel clusters. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 193, 355-361.	1.5	16

#	ARTICLE	IF	CITATIONS
199	Tuning the properties of graphene using a reversible gas-phase reaction. <i>NPG Asia Materials</i> , 2012, 4, e31-e31.	7.9	16
200	Stokesian dynamics of pill-shaped Janus particles with stick and slip boundary conditions. <i>Physical Review E</i> , 2013, 87, 043009.	2.1	16
201	Free convection in a tilted triangle porous cavity filled with Cu-water nanofluid with flush mounted heater on the wall. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013, 24, 2-20.	2.8	16
202	Intrinsic quantum spin Hall and anomalous Hall effects in h-Sb/Bi epitaxial growth on a ferromagnetic MnO ₂ thin film. <i>Nanoscale</i> , 2016, 8, 11202-11209.	5.6	16
203	Two-Dimensional Fe-Hexaaminobenzene Metal-Organic Frameworks as Promising CO ₂ Catalysts with High Activity and Selectivity. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26460-26466.	3.1	16
204	Rhizosphere Drives Biotite-Like Mineral Weathering and Secondary Fe-Si Mineral Formation in Fe Ore Tailings. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 618-631.	2.7	16
205	B ₄ Cluster-Based 3D Porous Topological Metal as an Anode Material for Both Li- and Na-Ion Batteries with a Superhigh Capacity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1548-1553.	4.6	16
206	Thickness-Controlled Three-Dimensional Dirac Semimetal for Scalable High-Performance Terahertz Optoelectronics. <i>ACS Photonics</i> , 2021, 8, 1689-1697.	6.6	16
207	The effect of rare earth element doping on thermoelectric properties of GeTe. <i>Chemical Engineering Journal</i> , 2022, 446, 137278.	12.7	16
208	Solving the Klein-Gordon equation by means of the homotopy analysis method. <i>Applied Mathematics and Computation</i> , 2005, 169, 355-365.	2.2	15
209	A self-assembled molecular nanostructure for trapping the native adatoms on Cu(110). <i>Chemical Communications</i> , 2013, 49, 1735.	4.1	15
210	Dehydrogenative Homocoupling of Alkyl Chains on Cu(110). <i>Chemistry - A European Journal</i> , 2016, 22, 1918-1921.	3.3	15
211	The selectivity and activity of catalyst for CO hydrogenation to methanol and hydrocarbon: A comparative study on Cu, Co and Ni surfaces. <i>Surface Science</i> , 2016, 645, 30-40.	1.9	15
212	Three dimensional metallic porous SiC ₄ allotropes: Stability and battery applications. <i>Nano Energy</i> , 2019, 63, 103862.	16.0	15
213	Computational study of porphyrin-based dyes with better performance. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15434.	2.8	14
214	Nickel Adatoms Induced Tautomeric Dehydrogenation of Thymine Molecules on Au(111). <i>ACS Nano</i> , 2018, 12, 9033-9039.	14.6	14
215	Enhanced thermoelectric performance in MXene/SnTe nanocomposites synthesized via a facile one-step solvothermal method. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122605.	2.9	14
216	Applying machine learning to accelerate new materials development. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2018, 48, 107001.	0.4	14

#	ARTICLE	IF	CITATIONS
217	Tight-binding calculation of ionization potentials of small silicon clusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 198, 243-247.	2.1	13
218	Theoretical consideration of Solid Oxide Electrolyzer Cell with zirconia-based electrolyte operated under extreme polarization or with low supply of feedstock chemicals. <i>Electrochimica Acta</i> , 2014, 130, 718-727.	5.2	13
219	Anisotropic Mo ₂ –Phthalocyanine Sheet: A New Member of the Organometallic Family. <i>Journal of Physical Chemistry A</i> , 2014, 118, 304-307.	2.5	13
220	Surface-assisted cis–trans isomerization of an alkene molecule on Cu(110). <i>Chemical Communications</i> , 2014, 50, 1728-1730.	4.1	13
221	Effect of Bulk Viscosity and Emulsion Droplet Size on the Separation Efficiency of Model Mineral Oil-in-Water (O/W) Emulsions under Ultrasonic Standing Wave Fields: A Theoretical and Experimental Investigation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7901-7912.	3.7	13
222	Enhanced Thermoelectric Performance of SnTe-Based Materials <i>via</i> Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50057-50064.	8.0	13
223	Mechanisms of Ionic Diffusion and Stability of the Na ₄ MnCr(PO ₄) ₃ Cathode. , 2022, 4, 860-867.		13
224	Preferential Formation of Fe ₁₃ O ₈ Clusters in a Reactive Laser Vaporization Cluster Source. <i>Journal of the Physical Society of Japan</i> , 1999, 68, 3497-3499.	1.6	12
225	Tuning CO ₂ Electroreduction of Cu Atoms on Triphenylene-Cored Graphdiyne. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29776-29782.	3.1	12
226	A BN analog of two-dimensional triphenylene-graphdiyne: stability and properties. <i>Nanoscale</i> , 2019, 11, 9000-9007.	5.6	12
227	Classifying superheavy elements by machine learning. <i>Physical Review A</i> , 2019, 99, .	2.5	12
228	Free convection of a hybrid nanofluid past a vertical plate embedded in a porous medium with anisotropic permeability. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 4083-4101.	2.8	12
229	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe) ₈₅ (AgSbTe) ₁₅ . <i>ETQq1</i> 1 0.784314 $\frac{rgBT}{12}$ / Over 11.0		12
230	Screening Topological Quantum Materials for Na-Ion Battery Cathode. , 2022, 4, 175-180.		12
231	Quantitative character variations of cambial derivatives in mangroves and their functional significance. <i>Trees - Structure and Function</i> , 2001, 15, 249-261.	1.9	11
232	Reaction-Induced Magnetic Transition in Mn ₂ Dimers. <i>Journal of Physical Chemistry A</i> , 2011, 115, 549-555.	2.5	11
233	Steering On-Surface Supramolecular Nanostructures by <i>tert</i> -Butyl Group. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3088-3092.	3.1	11
234	Design, synthesis and application of new iron-based cockscomb-like photocatalyst for high effectively degrading water contaminant under sunlight. <i>Applied Surface Science</i> , 2020, 525, 146559.	6.1	11

#	ARTICLE	IF	CITATIONS
235	Optical Forces and Torques on Eccentric Nanoscale Coreâ€“Shell Particles. ACS Photonics, 2021, 8, 1103-1111.	6.6	11
236	Theory-Guided Discovery of Novel Materials. Journal of Physical Chemistry Letters, 2021, 12, 6499-6513.	4.6	11
237	Enhanced thermoelectric performance of n-type Nb-doped PbTe by compensating resonant level and inducing atomic disorder. Materials Today Physics, 2022, 24, 100677.	6.0	11
238	On-surface synthesis of organometallic complex via metalâ€“alkene interactions. Chemical Communications, 2014, 50, 15924-15927.	4.1	10
239	Logic Control of Interfaceâ€“Induced Chargeâ€“Trapping Effect for Ultrasensitive Gas Detection with Allâ€“Mirrorâ€“Image Symmetry. Advanced Materials Technologies, 2016, 1, 1600067.	5.8	10
240	Three-dimensional free bio-convection of nanofluid near stagnation point on general curved isothermal surface. Applied Mathematics and Mechanics (English Edition), 2016, 37, 417-432.	3.6	10
241	Self-assembly of melem on Au(111) and Ag(111): the origin of two different hydrogen bonding configurations. Physical Chemistry Chemical Physics, 2017, 19, 18704-18708.	2.8	10
242	Field-only integral equation method for time domain scattering of electromagnetic pulses. Applied Optics, 2017, 56, 9377.	1.8	10
243	Detailed, real-time characterization of particle deposition during crossflow filtration as influenced by solution properties. Journal of Membrane Science, 2018, 555, 115-124.	8.2	10
244	Analysis of Mixed Convection in a Vertical Channel in the Presence of Electrical Double Layers. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 741-751.	1.5	10
245	Assessing the Skill of the Improved Treatment of Riverine Freshwater in the Community Earth System Model (CESM) Relative to a New Salinity Climatology. Journal of Advances in Modeling Earth Systems, 2019, 11, 1189-1206.	3.8	10
246	Tuning the Properties of Tetraceneâ€“Based Nanoribbons by Fluorination and Nâ€“Doping. ChemPhysChem, 2019, 20, 2799-2805.	2.1	10
247	High-quality epitaxial wurtzite structured InAs nanosheets grown in MBE. Nanoscale, 2020, 12, 271-276.	5.6	10
248	Green electro-synthesis of Li ₂ Fe ₃ O ₅ microcrystals as high performance anode material for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2020, 863, 114061.	3.8	10
249	Highly sensitive tuning of lattice thermal conductivity of graphene-like borophene by fluorination and chlorination. Nano Research, 2020, 13, 1171-1177.	10.4	10
250	Simultaneously optimized thermoelectric performance of n-type Cu ₂ Se alloyed Bi ₂ Te ₃ . Journal of Solid State Chemistry, 2021, 296, 121987.	2.9	10
251	Design of new metal-free dyes for dye-sensitized solar cells: A first-principles study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2595-2599.	2.1	9
252	Phthalocyanineâ€“Based Organometallic Nanocages: Properties and Gas Storage. ChemPhysChem, 2014, 15, 126-131.	2.1	9

#	ARTICLE	IF	CITATIONS
253	Magnetic two-dimensional organic topological insulator: Au ^{1,3,5} -triethynylbenzene framework. <i>Journal of Chemical Physics</i> , 2017, 147, 104704.	3.0	9
254	Discovery of a high-pressure phase of rutile-like CoO ₂ and its potential as a cathode material. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18449-18457.	10.3	9
255	Helmholtz Decomposition and Boundary Element Method Applied to Dynamic Linear Elastic Problems. <i>Journal of Elasticity</i> , 2019, 137, 83-100.	1.9	9
256	<i>In situ</i> TEM observation of the vapor-to-solid growth of InAs nanowires. <i>Nanoscale</i> , 2020, 12, 11711-11717.	5.6	9
257	Cu Atomic Chain Supported on Graphene Nanoribbon for Effective Conversion of CO ₂ to Ethanol. <i>ChemPhysChem</i> , 2020, 21, 1768-1774.	2.1	9
258	Analysis of BBM solitary wave interactions using the conserved quantities. <i>Chaos, Solitons and Fractals</i> , 2022, 155, 111725.	5.1	9
259	A simple and highly efficient composite based on g-C ₃ N ₄ for super rapid removal of multiple organic dyes from water under sunlight. <i>Catalysis Science and Technology</i> , 2022, 12, 786-798.	4.1	9
260	Optimal array alignment to deliver high performance in flexible conducting polymer-based thermoelectric devices. <i>Journal of Materials Science and Technology</i> , 2022, 124, 252-259.	10.7	9
261	Bonding Character of Hydrogen in Aluminum Clusters. <i>Materials Transactions</i> , 2001, 42, 2175-2179.	1.2	8
262	Comparison of electronic structures of ScAl ₃ and ScRh ₃ : X-ray photoelectron spectroscopy and ab initio band calculation. <i>Journal of Alloys and Compounds</i> , 2003, 358, 264-267.	5.5	8
263	Geometry, Electronic Properties, and Hydrogen Adsorption Properties of Li ₃ N-Based Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19202-19205.	3.1	8
264	Controlling on-surface molecular diffusion behaviors by functionalizing the organic molecules with tert-butyl groups. <i>Applied Physics Letters</i> , 2013, 103, 013103.	3.3	8
265	Communication: In search of four-atom chiral metal clusters. <i>Journal of Chemical Physics</i> , 2013, 139, 111101.	3.0	8
266	Oxygen-induced self-assembly of quaterphenyl molecules on metal surfaces. <i>Chemical Communications</i> , 2014, 50, 12112-12115.	4.1	8
267	A robust and accurate formulation of molecular and colloidal electrostatics. <i>Journal of Chemical Physics</i> , 2016, 145, 054106.	3.0	8
268	Three-dimensional pentagonal silicon: Stability and properties. <i>Computational Materials Science</i> , 2018, 155, 373-377.	3.0	8
269	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7212-7218.	5.5	8
270	Applying a Chemical Structure Teaching Method in the Pharmaceutical Analysis Curriculum to Improve Student Engagement and Learning. <i>Journal of Chemical Education</i> , 2020, 97, 421-426.	2.3	8

#	ARTICLE	IF	CITATIONS
271	A Non-singular, Field-Only Surface Integral Method for Interactions between Electric and Magnetic Dipoles and Nanostructures. <i>Annalen Der Physik</i> , 2022, 534, .	2.4	8
272	Coupled finite difference and boundary element methods for fluid flow through a vessel with multibranches in tumours. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 309-331.	2.1	7
273	Assembling π -Conjugated Molecules with Negative Gaussian Curvature for Efficient Carbon-Based Metal-Free Thermoelectric Material. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27829-27833.	3.1	7
274	Morphology and phase evolution from CuS to $\text{Cu}_{1.8}\text{S}$ in a hydrothermal process and thermoelectric properties of $\text{Cu}_{1.8}\text{S}$ bulk. <i>CrystEngComm</i> , 2019, 21, 5797-5803.	2.6	7
275	Eliminating the fictitious frequency problem in BEM solutions of the external Helmholtz equation. <i>Engineering Analysis With Boundary Elements</i> , 2019, 109, 106-116.	3.7	7
276	Hierarchical microstructure constructed with graphitic carbon-coated Ni_3S_2 nanoparticles anchored on N-doped mesoporous carbon nanoflakes for optimized sodium storage. <i>Nanoscale</i> , 2021, 13, 18734-18740.	5.6	7
277	Continuous flow fabrication of green graphene oxide in aqueous hydrogen peroxide. <i>Nanoscale Advances</i> , 2022, 4, 3121-3130.	4.6	7
278	Design of Three-Dimensional Metallic Biphenylene Networks for Na-Ion Battery Anodes with a Record High Capacity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32043-32055.	8.0	7
279	Relaxations of nonpolar zinc blende (110) surface of GaN, AlN, and BN. <i>Journal of Applied Physics</i> , 1998, 84, 1977-1980.	2.5	6
280	Effect of Hydrogen on the Magnetism and Its Solubility in Ferromagnetic Nickel. <i>Materials Transactions, JIM</i> , 1999, 40, 1244-1248.	0.9	6
281	Effect of boron non-stoichiometry on B-site in perovskite type structure ScB_xRh_3 and CeB_xRh_3 on charges of atoms on A-site: study by X-ray photoelectron and nuclear magnetic resonance spectroscopies. <i>Journal of Solid State Chemistry</i> , 2004, 177, 457-460.	2.9	6
282	Dependence of Magnetism on Doping Concentration in V-Doped Bulk ZnO. <i>Materials Transactions</i> , 2008, 49, 2469-2473.	1.2	6
283	Tripyrrylmethane based 2D porous structure for hydrogen storage. <i>Frontiers of Physics</i> , 2011, 6, 220-223.	5.0	6
284	Regulating the Interactions of Adsorbates on Surfaces by Scanning Tunneling Microscopy Manipulation. <i>ChemPhysChem</i> , 2014, 15, 2657-2663.	2.1	6
285	Exploring the Self-Assembly Behaviors of an Organic Molecule Functionalized by Terminal Alkyne and Aldehyde Groups on Au(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 12935-12940.	3.1	6
286	Strain and carrier-induced coexistence of topologically insulating and superconducting phase in iodized Si(111) films. <i>Nano Research</i> , 2016, 9, 1578-1589.	10.4	6
287	$\text{Be}_{12}\text{O}_{12}$ Nano-cage as a Promising Catalyst for CO_2 Hydrogenation. <i>Scientific Reports</i> , 2017, 7, 40562.	3.3	6
288	2D carbon sheets with negative Gaussian curvature assembled from pentagonal carbon nanoflakes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9123-9129.	2.8	6

#	ARTICLE	IF	CITATIONS
289	Free-Standing InAs Nanobelts Driven by Polarity in MBE. ACS Applied Materials & Interfaces, 2019, 11, 44609-44616.	8.0	6
290	Au-catalysed free-standing wurtzite structured InAs nanosheets grown by molecular beam epitaxy. Nano Research, 2019, 12, 2718-2722.	10.4	6
291	A high-pressure induced stable phase of $\text{Li}_2\text{MnSiO}_4$ as an effective poly-anion cathode material from simulations. Journal of Materials Chemistry A, 2019, 7, 16406-16413.	10.3	6
292	Modeling heat transfer of nanofluid flow in microchannels with electrokinetic and slippery effects using Buongiorno's model. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 2566-2587.	2.8	6
293	Interactions of multiple three-dimensional nonlinear high frequency magnetosonic waves in magnetized plasma. Physics of Fluids, 2020, 32, .	4.0	6
294	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. Sustainable Materials and Technologies, 2020, 25, e00183.	3.3	6
295	2D CrCl_2 (pyrazine) $_2$ monolayer: high-temperature ferromagnetism and half-metallicity. Journal of Physics Condensed Matter, 2020, 32, 135801.	1.8	6
296	Metal-free Catalyst B $_2$ S Sheet for Effective CO $_2$ Electrochemical Reduction to CH $_3$ OH. ChemPhysChem, 2020, 21, 779-784.	2.1	6
297	Quasi-solid-state self-assembly of 1D-branched ZnSe/ZnS quantum rods into parallel monorail-like continuous films for solar devices. Nano Energy, 2021, 89, 106348.	16.0	6
298	Anomalous Photoelectrical Properties through Strain Engineering Based on a Single Bent InAsSb Nanowire. ACS Applied Materials & Interfaces, 2021, 13, 5691-5698.	8.0	6
299	High shear <i>in situ</i> exfoliation of 2D gallium oxide sheets from centrifugally derived thin films of liquid gallium. Nanoscale Advances, 2021, 3, 5785-5792.	4.6	6
300	Theoretical Study of Hydrogen Solubility in Fe, Co and Ni. Materials Transactions, JIM, 1999, 40, 855-858.	0.9	5
301	First-Principles Calculation on Dissociation of Hydrogen Molecule in Nickel. Materials Transactions, JIM, 2000, 41, 1114-1117.	0.9	5
302	A molecular conformational change induced self-assembly: from randomness to order. Chemical Communications, 2013, 49, 5207.	4.1	5
303	Tailoring on-surface supramolecular architectures based on adenine directed self-assembly. Chemical Communications, 2014, 50, 356-358.	4.1	5
304	Three-dimensional porous borocarbonitride BC_2N with negative Poisson's ratio. Journal of Materials Chemistry C, 2020, 8, 15771-15777.	5.5	5
305	Stagnation Flow of a SWCNT Nanofluid towards a Plane Surface with Heterogeneous-Homogeneous Reactions. Mathematical Problems in Engineering, 2020, 2020, 1-12.	1.1	5
306	Intercalation-Induced Disintegrated Layer-By-Layer Growth of Ultrathin Ternary $\text{Mo}(\text{Te}_{1-x}\text{S}_x)_2$ Plates. ACS Applied Materials & Interfaces, 2020, 12, 30980-30989.	8.0	5

#	ARTICLE	IF	CITATIONS
307	Preferential coupling of diamond NV centres in step-index fibres. <i>Optics Express</i> , 2021, 29, 14425.	3.4	5
308	Analytical solution for an acoustic boundary layer around an oscillating rigid sphere. <i>Physics of Fluids</i> , 2020, 32, 126105.	4.0	5
309	Achieving High-Performance $\text{Ge}_{0.92}\text{Bi}_{0.08}\text{Te}$ Thermoelectrics via LaB_6 -Alloying-Induced Band Engineering and Multi-Scale Structure Manipulation. <i>Small</i> , 2022, 18, e2105923.	10.0	5
310	First-principles study of the effect of vacancies on magnetic properties of $\text{Zn}_{1-x}\text{Co}_x\text{O}$ thin films. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 076002.	1.8	4
311	Recent advances in 2D thermoelectric materials. <i>Proceedings of SPIE</i> , 2016, , .	0.8	4
312	Effect of Sn Addition on Epitaxial GaAs Nanowire Grown at Different Temperatures in Metal-Organic Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2019, 19, 5314-5319.	3.0	4
313	The Stereoselective Formation of trans-Cumulene through Dehalogenative Homocoupling of Alkenyl gem-Dibromides on Cu(110). <i>ChemCatChem</i> , 2019, 11, 5417-5420.	3.7	4
314	Understanding the Effect of Catalyst Size on the Epitaxial Growth of Hierarchical Structured InGaP Nanowires. <i>Nano Letters</i> , 2019, 19, 8262-8269.	9.1	4
315	Microwave plasma rapid heating towards robust cathode/electrolyte interface for solid oxide fuel cells. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 53-60.	9.4	4
316	Topological Quantum Cathode Materials for Fast Charging Li-Ion Battery Identified by Machine Learning and First Principles Calculation. <i>Advanced Theory and Simulations</i> , 2022, 5, 2100350.	2.8	4
317	Atomic Structure of Pd-Intercalated Graphite by High-Resolution Electron Microscopy and First Principles Calculations. <i>Materials Transactions, JIM</i> , 1999, 40, 1213-1218.	0.9	3
318	First-Principles Study of the Magic Ar_6Fe^+ Cluster. <i>Materials Transactions</i> , 2001, 42, 2172-2174.	1.2	3
319	Electronic structure of perovskite-type YBRh_3 : X-ray photoelectron spectroscopy and ab initio band calculations. <i>Journal of Alloys and Compounds</i> , 2003, 349, 206-210.	5.5	3
320	Adsorption-geometry induced transformation of self-assembled nanostructures of an aldehyde molecule on Cu(110). <i>Nanoscale</i> , 2014, 6, 11062-11065.	5.6	3
321	On-Surface Construction of Network Structures by the tert-Butyl-Substituted Organic Molecules. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8155-8159.	3.1	3
322	Photoelectronic Properties of End-bonded InAsSb Nanowire Array Detector under Weak Light. <i>Nanoscale Research Letters</i> , 2021, 16, 13.	5.7	3
323	3D Porous Metallic Boron Carbide Crystal Structure with Excellent Ductility. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100325.	2.8	3
324	Analytical solution for a vibrating rigid sphere with an elastic shell in an infinite linear elastic medium. <i>International Journal of Solids and Structures</i> , 2022, 239-240, 111448.	2.7	3

#	ARTICLE	IF	CITATIONS
325	Effect of Magnetic Transition on Hydrogen Solubility in Ni. Materials Transactions, JIM, 2000, 41, 621-623.	0.9	2
326	COMPUTATIONAL DESIGN OF NANOMATERIALS FOR HYDROGEN STORAGE. , 2009, , .		2
327	Doping induced anisotropic growth in C[sub 60]. Journal of Chemical Physics, 2009, 130, 184714.	3.0	2
328	Interaction of C59Si with Si based clusters: a study of Janus nanostructures. Journal of Physics Condensed Matter, 2010, 22, 275303.	1.8	2
329	Cu₂Teâ€“Ag₂Te lateral topological insulator heterojunction: stability and properties. Nanotechnology, 2018, 29, 505711.	2.6	2
330	Engineering Iron-Based Nanoparticles Spatially Dispersed on Mesoporous Carbon and Its Catalytic Activity for the Direct Oxidization of Benzene to Phenol. Nano, 2018, 13, 1850094.	1.0	2
331	Low Temperature Synthesis of Mesoporous SiC in Dual-Confined Spaces via Magnesiothermic Reduction. Nano, 2019, 14, 1950115.	1.0	2
332	MBE Growth and Characterization of Strained HgTe (111) Films on CdTe/GaAs. Chinese Physics Letters, 2020, 37, 038101.	3.3	2
333	Carbene Ligand-Doped Fe2O3 Composite for Rapid Removal of Multiple Dyes under Sunlight. Sustainability, 2021, 13, 12669.	3.2	2
334	Enhancing Electron Emission of Hf with an Ultralow Work Function by Bariumâ€“Oxygen Coatings. Journal of Physical Chemistry C, 2022, 126, 2806-2812.	3.1	2
335	Atomistic theory of the critical field for intrinsic spin reversal in transition metals. Physical Review B, 1999, 59, 1028-1035.	3.2	1
336	Structure of Pd-Intercalated Graphite Onions Formed by Electron Beam Irradiation. Molecular Crystals and Liquid Crystals, 2000, 340, 95-100.	0.3	1
337	Probing the existence of energetically degenerate cluster isomers by chemical tagging. Applied Physics Letters, 2010, 97, 223104.	3.3	1
338	Cu Atomic Chain Supported on Graphene Nanoribbon for Effective Conversion of CO 2 to Ethanol. ChemPhysChem, 2020, 21, 1741-1741.	2.1	1
339	Effect of grain boundaries on the work function of hafnium: A first-principles investigation. Journal of Applied Physics, 2021, 130, .	2.5	1
340	Inoculation Treatment of an Additively Manufactured 2024 Aluminium Alloy with Titanium Nanoparticles. SSRN Electronic Journal, 0, , .	0.4	1
341	Molybdenumâ€“Promoted Surface Reconstruction in Polymorphic Cobalt for Initiating Rapid Oxygen Evolution (Adv. Energy Mater. 5/2022). Advanced Energy Materials, 2022, 12, .	19.5	1
342	Research in renewable energy materials: The fundamental physics and chemistry China. Frontiers of Physics, 2011, 6, 141-141.	5.0	0

#	ARTICLE	IF	CITATIONS
343	<p> Synthesis and hydrogen adsorption of $\text{Cu}_2\text{O}/\text{Cu}$ interface xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" </p>	2.1	0
344	<p> Atomic-Scale Probing the Priority of Oxidation Sites of an Organic Molecule Adsorbed at the $\text{Cu}_2\text{O}/\text{Cu}$ Interface. ChemCatChem, 2013, 5, 2662-2666. </p>	3.7	0
345	<p> Assembling a bi-coordinated Cr complex for ferromagnetic nanorings: insight from first-principles calculations. Physical Chemistry Chemical Physics, 2016, 18, 17868-17874. </p>	2.8	0
346	<p> Self-assembled nanostructures of a di-carbonitrile molecule on copper single-crystal surfaces. RSC Advances, 2017, 7, 1771-1775. </p>	3.6	0
347	<p> On-surface stereoconvergent synthesis, dimerization and hybridization of organocopper complexes. Science China Chemistry, 2019, 62, 126-132. </p>	8.2	0
348	<p> Axiotaxy driven growth of belt-shaped InAs nanowires in molecular beam epitaxy. Nano Research, 2021, 14, 2330. </p>	10.4	0
349	<p> Non-Singular Boundary Integral Method and Its Applications to Oscillating Bubbles. , 2012, , . </p>		0
350	<p> Simple field enhancement formulation for gold bipyramids for application in two-photon luminescence and scattering. , 2018, , . </p>		0
351	<p> How deep are your centres? Probing the distance of nitrogen vacancy centres from the surface of nanodiamonds. , 2019, , . </p>		0
352	<p> A simple and robust surface integral method to model light and matter interactions. , 2019, , . </p>		0
353	<p> Heterogeneous Lamella Design to Tune the Mechanical Behaviour of a New Cost-Effective Compositionally Complicated Alloy. SSRN Electronic Journal, 0, , . </p>	0.4	0