

Shunhong Zhang

List of Publications by Year in descending order

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61
papers

4,504
citations

218381

26
h-index

133063

59
g-index

63
all docs

63
docs citations

63
times ranked

5890
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	Dynamic reassembly of peptide RADA16 nanofiber scaffold. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8414-8419.	3.3	608
3	Structures and Phase Transition of a MoS ₂ Monolayer. Journal of Physical Chemistry C, 2014, 118, 1515-1522.	1.5	432
4	Thermoelectric properties of single-layered SnSe sheet. Nanoscale, 2015, 7, 15962-15970.	2.8	256
5	Beyond Graphitic Carbon Nitride: Nitrogen-Rich Penta-CN ₂ Sheet. Journal of Physical Chemistry C, 2016, 120, 3993-3998.	1.5	167
6	TiC ₂ : a new two-dimensional sheet beyond MXenes. Nanoscale, 2016, 8, 233-242.	2.8	161
7	Three-Dimensional Metallic Boron Nitride. Journal of the American Chemical Society, 2013, 135, 18216-18221.	6.6	145
8	Stable three-dimensional metallic carbon with interlocking hexagons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18809-18813.	3.3	134
9	Necklace-like Noble-Metal Hollow Nanoparticle Chains: Synthesis and Tunable Optical Properties. Advanced Materials, 2007, 19, 2172-2176.	11.1	120
10	Tuning the electronic and mechanical properties of penta-graphene via hydrogenation and fluorination. Physical Chemistry Chemical Physics, 2016, 18, 14191-14197.	1.3	103
11	Prediction of two-dimensional nodal-line semimetals in a carbon nitride covalent network. Journal of Materials Chemistry A, 2018, 6, 11252-11259.	5.2	101
12	Synthesis of molybdenum silicides by the self-propagating combustion method. Journal of Materials Science, 1991, 26, 3685-3688.	1.7	100
13	Formation of Gold and Silver Nanoparticle Arrays and Thin Shells on Mesostructured Silica Nanofibers. Advanced Functional Materials, 2007, 17, 3258-3266.	7.8	98
14	A new metallic carbon allotrope with high stability and potential for lithium ion battery anode material. Nano Energy, 2017, 38, 263-270.	8.2	77
15	Topological Electride Y ₂ C. Nano Letters, 2018, 18, 1972-1977.	4.5	67
16	Stability and physical properties of a tri-ring based porous g-C ₄ N ₃ sheet. Physical Chemistry Chemical Physics, 2013, 15, 7142.	1.3	64
17	Robust ferromagnetism in monolayer chromium nitride. Scientific Reports, 2014, 4, 5241.	1.6	61
18	Suppressing bipolar effect to broadening the optimum range of thermoelectric performance for p-type bismuth telluride-based alloys via calcium doping. Materials Today Physics, 2019, 9, 100130.	2.9	45

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19	Structure and properties of Mn ₄ Cl ₉ : An antiferromagnetic binary hyperhalogen. <i>Journal of Chemical Physics</i> , 2013, 138, 054309.	1.2	43
20	Topological Band Engineering of Lieb Lattice in Phthalocyanine-Based Metal-Organic Frameworks. <i>Nano Letters</i> , 2020, 20, 1959-1966.	4.5	43
21	Kagome bands disguised in a coloring-triangle lattice. <i>Physical Review B</i> , 2019, 99, .	1.1	42
22	Atomic scale electronic structure of the ferromagnetic semiconductor Cr ₂ Ge ₂ Te ₆ . <i>Science Bulletin</i> , 2018, 63, 825-830.	4.3	40
23	New Phosphorene Allotropes Containing Ridges with 2- and 4-Coordination. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24674-24680.	1.5	37
24	Tuning electronic and magnetic properties of silicene with magnetic superhalogens. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22979-22986.	1.3	35
25	A new C=C embedded porphyrin sheet with superior oxygen reduction performance. <i>Nano Research</i> , 2015, 8, 2901-2912.	5.8	35
26	Topological insulating states in 2D transition metal dichalcogenides induced by defects and strain. <i>Nanoscale</i> , 2017, 9, 562-569.	2.8	28
27	Observation of the photoinduced anomalous Hall effect in GaN-based heterostructures. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	24
28	Structure, Stability, and Property Modulations of Stoichiometric Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1064-1070.	1.5	22
29	Effects of injection conditions on the stability of rotating detonation waves. <i>Shock Waves</i> , 2018, 28, 1079-1087.	1.0	22
30	Unidirectional Spin-Orbit Interaction Induced by the Line Defect in Monolayer Transition Metal Dichalcogenides for High-Performance Devices. <i>Nano Letters</i> , 2019, 19, 6005-6012.	4.5	21
31	Stabilizing benzene-like planar N ₆ rings to form a single atomic honeycomb BeN ₃ sheet with high carrier mobility. <i>Nanoscale</i> , 2018, 10, 949-957.	2.8	18
32	Normal-to-topological insulator martensitic phase transition in group-IV monochalcogenides driven by light. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	18
33	Detection of spin-orbit coupling of surface electron layer via reciprocal spin Hall effect in InN films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	16
34	Electronic and optical properties of silicon based porous sheets. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16832.	1.3	16
35	Physical Properties and Photovoltaic Application of Semiconducting Pd ₂ Se ₃ Monolayer. <i>Nanomaterials</i> , 2018, 8, 832.	1.9	16
36	Terahertz optics-driven phase transition in two-dimensional multiferroics. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	16

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37	The combustion synthesis of refractory nitrides. <i>Journal of Materials Science</i> , 1991, 26, 3380-3385.	1.7	15
38	A first-principle perspective on electronic nematicity in FeSe. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	15
39	Bonding-restricted structure search for novel 2D materials with dispersed C2 dimers. <i>Scientific Reports</i> , 2016, 6, 29531.	1.6	14
40	Phosphorus K4 Crystal: A New Stable Allotrope. <i>Scientific Reports</i> , 2016, 6, 37528.	1.6	13
41	Self-assembly of metal atoms (Na, K, Ca) on graphene. <i>Nanoscale</i> , 2015, 7, 2352-2359.	2.8	10
42	Emergence of Van Hove singularity and topological states in Pb3Bi/Ge(111) Rashba systems. <i>Physical Review B</i> , 2020, 102, .	1.1	10
43	Role of interstitial hydrogen in $\text{SrCoO}_{2.5}$ antiferromagnetic insulator. <i>Physical Review Materials</i> , 2018, 2, .	1.1	10
44	Noncontacting optostriction driven anisotropic and inhomogeneous strain in two-dimensional materials. <i>Physical Review Research</i> , 2020, 2, .	1.3	9
45	Antisite Defect-Enhanced Thermoelectric Performance of Topological Crystalline Insulators. <i>Advanced Functional Materials</i> , 2020, 30, 2003162.	7.8	8
46	Magnetism of triangular nanoflakes with different compositions and edge terminations. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	7
47	Thermal exfoliation of stoichiometric single-layer silica from the stishovite phase: insight from first-principles calculations. <i>Nanoscale</i> , 2016, 8, 10598-10606.	2.8	7
48	Low-Temperature Catalytic Graphitization of Phenolic Resin Using a Co-Ni Bimetallic Catalyst. <i>InterCeram: International Ceramic Review</i> , 2016, 65, 24-27.	0.2	6
49	Microscopic indium distribution and electron localization in zinc blende InGaN alloys and InGaN/GaN strained quantum wells. <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 105-111.	1.1	5
50	Integrating superconducting phase and topological crystalline quantum spin Hall effect in hafnium intercalated gallium film. <i>Applied Physics Letters</i> , 2016, 108, 253102.	1.5	4
51	Electronic and spin dynamics in the insulating iron pnictide NaFeO_2 . <i>Physical Review B</i> , 2017, 96, .	1.1	4
52	Renormalization of the Mott gap by lattice entropy: The case of 1T-TaS2. <i>Physical Review Research</i> , 2020, 2, .	1.3	4
53	Coexistence of Superconductivity and Nontrivial Band Topology in Monolayered Cobalt Pnictides on SrTiO ₃ . <i>Nano Letters</i> , 2021, 21, 7396-7404.	4.5	3
54	Epitaxial growth of black phosphorene enabled on black-phosphorene-like group IV-VI substrates. <i>Physical Review B</i> , 2021, 104, .	1.1	3

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55	The long-term effect of dental treatment under general anaesthesia or physical restraints on children's dental anxiety and behaviour.. European Journal of Paediatric Dentistry, 2022, 23, 27-32.	0.4	3
56	Co-generation of Electric Power and Carbon Nanotubes from Dimethyl Ether (DME). Fuel Cells, 2014, 14, 561-565.	1.5	2
57	Homoepitaxial Growth of GaN Using Seeded Supersonic Molecular Beams. Materials Research Society Symposia Proceedings, 1997, 482, 399.	0.1	1
58	Many faces of carbon. Proceedings of SPIE, 2016, , .	0.8	1
59	Tunable Magnetic and Electronic Properties of the 2D CoO ₂ Layer. Journal of Physical Chemistry C, 2021, 125, 873-877.	1.5	1
60	Electron-nuclear hyperfine coupling in quantum kagome antiferromagnets from first-principles calculation and a reflection of the defect effect. Science Bulletin, 2019, 64, 1584-1591.	4.3	0
61	Exploring high transition temperature topological superconductivity in (Li _{1-x} Co _x OH)CoSb superlattices. Physical Review B, 2020, 102, .	1.1	0