

# Shunhong Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8196122/publications.pdf>

Version: 2024-02-01

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	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
2	Tunable Magnetic and Electronic Properties of the 2D CoO <sub>2</sub> Layer. Journal of Physical Chemistry C, 2021, 125, 873-877.	1.5	1
3	Coexistence of Superconductivity and Nontrivial Band Topology in Monolayered Cobalt Prictides on SrTiO <sub>3</sub> . Nano Letters, 2021, 21, 7396-7404.	4.5	3
4	Terahertz optics-driven phase transition in two-dimensional multiferroics. Npj 2D Materials and Applications, 2021, 5, .	3.9	16
5	Epitaxial growth of black phosphorene enabled on black-phosphorene-like group IV-VI substrates. Physical Review B, 2021, 104, .	1.1	3
6	Emergence of Van Hove singularity and topological states in Pb <sub>3</sub> Bi/Ge(111) Rashba systems. Physical Review B, 2020, 102, .	1.1	10
7	A first-principle perspective on electronic nematicity in FeSe. Npj Quantum Materials, 2020, 5, .	1.8	15
8	Exploring high transition temperature topological superconductivity in (Li <sub>1-x</sub> Co <sub>x</sub> OH)CoSb superlattices. Physical Review B, 2020, 102, .	1.1	0
9	Antisite Defect-Enhanced Thermoelectric Performance of Topological Crystalline Insulators. Advanced Functional Materials, 2020, 30, 2003162.	7.8	8
10	Topological Band Engineering of Lieb Lattice in Phthalocyanine-Based Metal-Organic Frameworks. Nano Letters, 2020, 20, 1959-1966.	4.5	43
11	Normal-to-topological insulator martensitic phase transition in group-IV monochalcogenides driven by light. NPG Asia Materials, 2020, 12, .	3.8	18
12	Noncontacting optostriction driven anisotropic and inhomogeneous strain in two-dimensional materials. Physical Review Research, 2020, 2, .	1.3	9
13	Renormalization of the Mott gap by lattice entropy: The case of 1T-TaS <sub>2</sub> . Physical Review Research, 2020, 2, .	1.3	4
14	Unidirectional Spin-Orbit Interaction Induced by the Line Defect in Monolayer Transition Metal Dichalcogenides for High-Performance Devices. Nano Letters, 2019, 19, 6005-6012.	4.5	21
15	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
16	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
17	Kagome bands disguised in a coloring-triangle lattice. Physical Review B, 2019, 99, .	1.1	42
18	Topological Electride Y <sub>2</sub> C. Nano Letters, 2018, 18, 1972-1977.	4.5	67

#	ARTICLE	IF	CITATIONS
19	Prediction of two-dimensional nodal-line semimetals in a carbon nitride covalent network. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11252-11259.	5.2	101
20	Stabilizing benzene-like planar N <sub>6</sub> rings to form a single atomic honeycomb BeN <sub>3</sub> sheet with high carrier mobility. <i>Nanoscale</i> , 2018, 10, 949-957.	2.8	18
21	Physical Properties and Photovoltaic Application of Semiconducting Pd <sub>2</sub> Se <sub>3</sub> Monolayer. <i>Nanomaterials</i> , 2018, 8, 832.	1.9	16
22	Atomic scale electronic structure of the ferromagnetic semiconductor Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> . <i>Science Bulletin</i> , 2018, 63, 825-830.	4.3	40
23	Effects of injection conditions on the stability of rotating detonation waves. <i>Shock Waves</i> , 2018, 28, 1079-1087.	1.0	22
24	Role of interstitial hydrogen in $\text{SrCoO}_{2.5}$ antiferromagnetic insulator. <i>Physical Review Materials</i> , 2018, 2, .	1.0	1
25	A new metallic carbon allotrope with high stability and potential for lithium ion battery anode material. <i>Nano Energy</i> , 2017, 38, 263-270.	8.2	77
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	Electronic and spin dynamics in the insulating iron pnictide $\text{NaFeO}_3$ . <i>Physical Review B</i> , 2017, 96, .	1.0	1
28	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
29	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
30	Many faces of carbon. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
31	Tuning the electronic and mechanical properties of penta-graphene via hydrogenation and fluorination. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14191-14197.	1.3	103
32	Phosphorus K <sub>4</sub> Crystal: A New Stable Allotrope. <i>Scientific Reports</i> , 2016, 6, 37528.	1.6	13
33	Bonding-restricted structure search for novel 2D materials with dispersed C <sub>2</sub> dimers. <i>Scientific Reports</i> , 2016, 6, 29531.	1.6	14
34	Beyond Graphitic Carbon Nitride: Nitrogen-Rich Penta-CN <sub>2</sub> Sheet. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3993-3998.	1.5	167
35	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
36	Ti <sub>2</sub> : a new two-dimensional sheet beyond MXenes. <i>Nanoscale</i> , 2016, 8, 233-242.	2.8	161

#	ARTICLE	IF	CITATIONS
37	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
38	A new C=C embedded porphyrin sheet with superior oxygen reduction performance. Nano Research, 2015, 8, 2901-2912.	5.8	35
39	New Phosphorene Allotropes Containing Ridges with 2- and 4-Coordination. Journal of Physical Chemistry C, 2015, 119, 24674-24680.	1.5	37
40	Thermoelectric properties of single-layered SnSe sheet. Nanoscale, 2015, 7, 15962-15970.	2.8	256
41	Self-assembly of metal atoms (Na, K, Ca) on graphene. Nanoscale, 2015, 7, 2352-2359.	2.8	10
42	Structures and Phase Transition of a MoS <sub>2</sub> Monolayer. Journal of Physical Chemistry C, 2014, 118, 1515-1522.	1.5	432
43	Tuning electronic and magnetic properties of silicene with magnetic superhalogens. Physical Chemistry Chemical Physics, 2014, 16, 22979-22986.	1.3	35
44	Co <sup>2+</sup> Generation of Electric Power and Carbon Nanotubes from Dimethyl Ether (DME). Fuel Cells, 2014, 14, 561-565.	1.5	2
45	Electronic and optical properties of silicon based porous sheets. Physical Chemistry Chemical Physics, 2014, 16, 16832.	1.3	16
46	Robust ferromagnetism in monolayer chromium nitride. Scientific Reports, 2014, 4, 5241.	1.6	61
47	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
48	Structure and properties of Mn <sub>4</sub> Cl <sub>9</sub> : An antiferromagnetic binary hyperhalogen. Journal of Chemical Physics, 2013, 138, 054309.	1.2	43
49	Three-Dimensional Metallic Boron Nitride. Journal of the American Chemical Society, 2013, 135, 18216-18221.	6.6	145
50	Stability and physical properties of a tri-ring based porous g-C <sub>4</sub> N <sub>3</sub> sheet. Physical Chemistry Chemical Physics, 2013, 15, 7142.	1.3	64
51	Structure, Stability, and Property Modulations of Stoichiometric Graphene Oxide. Journal of Physical Chemistry C, 2013, 117, 1064-1070.	1.5	22
52	Detection of spin-orbit coupling of surface electron layer via reciprocal spin Hall effect in InN films. Applied Physics Letters, 2012, 101, .	1.5	16
53	Magnetism of triangular nanoflakes with different compositions and edge terminations. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	7
54	Microscopic indium distribution and electron localization in zinc blende InGa <sub>1-x</sub> N alloys and InGa <sub>1-x</sub> N/GaN strained quantum wells. Applied Physics B: Lasers and Optics, 2011, 104, 105-111.	1.1	5

#	ARTICLE	IF	CITATIONS
55	Observation of the photoinduced anomalous Hall effect in GaN-based heterostructures. Applied Physics Letters, 2011, 98, .	1.5	24
56	Formation of Gold and Silver Nanoparticle Arrays and Thin Shells on Mesostructured Silica Nanofibers. Advanced Functional Materials, 2007, 17, 3258-3266.	7.8	98
57	Necklace-like Noble-Metal Hollow Nanoparticle Chains: Synthesis and Tunable Optical Properties. Advanced Materials, 2007, 19, 2172-2176.	11.1	120
58	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
59	Homoepitaxial Growth of GaN Using Seeded Supersonic Molecular Beams. Materials Research Society Symposia Proceedings, 1997, 482, 399.	0.1	1
60	The combustion synthesis of refractory nitrides. Journal of Materials Science, 1991, 26, 3380-3385.	1.7	15
61	Synthesis of molybdenum silicides by the self-propagating combustion method. Journal of Materials Science, 1991, 26, 3685-3688.	1.7	100