

# Quanjun Li

## List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Recordâ€™High Superconductivity in Transition Metal Dichalcogenides Emerged in Compressed 2Hâ€™TaS <sub>2</sub> . <i>Advanced Materials</i> , 2022, 34, e2103168.	11.1	24
2	Excellent Carrier Transport Property of Hybrid Perovskites Sustained under High Pressures. <i>ACS Energy Letters</i> , 2022, 7, 154-161.	8.8	17
3	Size and Shapeâ€™s Effects on the High-Pressure Behavior of WS <sub>2</sub> Nanomaterials. <i>Materials</i> , 2022, 15, 2838.	1.3	5
4	Pressure-Driven Abnormal Emission Blue-Shift of Lead-Free Halide Double Perovskite Cs <sub>2</sub> AgInCl <sub>6</sub> Nanocrystals. <i>Inorganic Chemistry</i> , 2022, 61, 6488-6492.	1.9	5
5	Evolution of self-trapped exciton emission tuned by high pressure in 2D all-inorganic cesium lead halide nanosheets. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8711-8718.	2.7	5
6	Structural Evolution of D <sub>5h</sub> (1)-C <sub>90</sub> under High Pressure: A Mediate Allotrope of Nanocarbon from Zero-Dimensional Fullerene to One-Dimensional Nanotube. <i>Chinese Physics Letters</i> , 2022, 39, 056101.	1.3	2
7	Realization of pressure induced emission enhancement for rare earth luminescent materials: Adopting delta-doped structure. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157882.	2.8	1
8	Structural phase transition and superconductivity hierarchy in 1T-TaS <sub>2</sub> under pressure up to 100â€™GPa. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	29
9	Pressure and Thermally Induced Spin Crossover in a 2D Iron(II) Coordination Polymer {Fe[bipy(ttr)] <sub>n</sub> }. 2021, .		0
10	Enhanced Photoluminescence and Photoresponsiveness of Eu <sup>3+</sup> Ionsâ€™Doped CsPbCl <sub>3</sub> Perovskite Quantum Dots under High Pressure. <i>Advanced Functional Materials</i> , 2021, 31, 2100930.	7.8	71
11	Semiconductor-to-metal transition in HfSe <sub>2</sub> under high pressure. <i>Journal of Alloys and Compounds</i> , 2021, 867, 158923.	2.8	12
12	Molecular insertion regulates the donor-acceptor interactions in cocrystals for the design of piezochromic luminescent materials. <i>Nature Communications</i> , 2021, 12, 4084.	5.8	41
13	Retainable Superconductivity and Structural Transition in 1T-TaSe <sub>2</sub> Under High Pressure. <i>Inorganic Chemistry</i> , 2021, 60, 11385-11393.	1.9	5
14	Pressure-Induced Electronic and Structural Transition in Nodal-Line Semimetal ZrSiSe. <i>Inorganic Chemistry</i> , 2021, 60, 11140-11146.	1.9	2
15	Pressure Engineering for Extending Spectral Response Range and Enhancing Photoelectric Properties of Iodine. <i>Advanced Optical Materials</i> , 2021, 9, 2101163.	3.6	16
16	Influence of post-annealing, defect chemistry and high pressure on the magnetocaloric effect of non-stoichiometric La <sub>0.8</sub> K <sub>0.2</sub> Mn <sub>1+O3</sub> compounds. <i>Ceramics International</i> , 2021, 47, 24553-24563.	2.3	21
17	Pressure Tunable Electronic Bistability in Fe(II) Hofmann-like Two-Dimensional Coordination Polymer [Fe(Fpz) <sub>2</sub> Pt(CN) <sub>4</sub> ]: A Comprehensive Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2021, 60, 16016-16028.	1.9	16
18	Ultrahard bulk amorphous carbon from collapsed fullerene. <i>Nature</i> , 2021, 599, 599-604.	13.7	99

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19	Observation of 9-Fold Coordinated Amorphous TiO <sub>2</sub> at High Pressure. Journal of Physical Chemistry Letters, 2020, 11, 374-379.	2.1	10
20	Effects of pressure on the structure and properties of layered ferromagnetic Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> . Physica B: Condensed Matter, 2020, 595, 412344.	1.3	7
21	Origin of the large magnetoresistance in the candidate chiral superconductor $\text{H}_x\text{S}_2$ . Physical Review B, 2020, 102, .	1.1	8
22	Origin of the multiple charge density wave order in $\text{TaTe}_3$ . Physical Review B, 2020, 101, .	1.1	8
23	Variable Cooperative Interactions in the Pressure and Thermally Induced Multistep Spin Transition in a Two-Dimensional Iron(II) Coordination Polymer. Inorganic Chemistry, 2020, 59, 10548-10556.	1.9	12
24	Multifunctionality of lanthanum-strontium manganite nanopowder. Physical Chemistry Chemical Physics, 2020, 22, 11817-11828.	1.3	28
25	Critical phenomena of magnetization, magnetocaloric effect, and superparamagnetism in nanoparticles of non-stoichiometric manganite. Journal of Alloys and Compounds, 2020, 836, 155440.	2.8	34
26	Size and morphology effects on the high pressure behaviors of Mn <sub>3</sub> O <sub>4</sub> nanorods. Nanoscale Advances, 2020, 2, 5841-5847.	2.2	9
27	Electrical Voltage Control of the Pressure-Induced Spin Transition at Room Temperature in the Microporous 3D Polymer [Fe(pz)Pt(CN) <sub>4</sub> ]. Journal of Physical Chemistry C, 2019, 123, 5642-5646.	1.5	16
28	Pressure induced transformation and subsequent amorphization of monoclinic Nb <sub>2</sub> O <sub>5</sub> and its effect on optical properties. Journal of Physics Condensed Matter, 2019, 31, 105401.	0.7	7
29	Pressure-Induced Reversible Phase Transitions in a New Metastable Phase of Vanadium Dioxide. Journal of Physical Chemistry C, 2019, 123, 955-962.	1.5	4
30	Morphology-Tuned Phase Transitions of Horseshoe Shaped BaTiO <sub>3</sub> Nanomaterials under High Pressure. Journal of Physical Chemistry C, 2018, 122, 5188-5194.	1.5	14
31	Raman and IR spectroscopic characterization of molybdenum disulfide under quasi-hydrostatic and non-hydrostatic conditions. Physica Status Solidi (B): Basic Research, 2017, 254, 1600798.	0.7	9
32	Pressure-induced phase transitions and insulator-metal transitions in VO <sub>2</sub> nanoparticles. Journal of Alloys and Compounds, 2017, 709, 260-266.	2.8	12
33	Optical properties and structural phase transitions of W-doped VO <sub>2</sub> (R) under pressure. RSC Advances, 2017, 7, 31597-31602.	1.7	5
34	Linear Tunability of the Band Gap and Two-Dimensional (2D) to Three-Dimensional (3D) Isostructural Transition in WSe <sub>2</sub> under High Pressure. Journal of Physical Chemistry C, 2017, 121, 26019-26026.	1.5	20
35	Pressure-induced metallization and amorphization in $\text{VO}_2$ . Physical Review B, 2016, 93, .	1.1	20
36	The pressure-induced metallization of monoclinic vanadium dioxide. RSC Advances, 2016, 6, 104949-104954.	1.7	13

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37	Structural Stability and Deformation of Solvated Sm@C <sub>2</sub> (42)-C <sub>90</sub> under High Pressure. Scientific Reports, 2016, 6, 31213.	1.6	5
38	Nanosize effects assisted synthesis of the high pressure metastable phase in ZrO <sub>2</sub> . Nanoscale, 2016, 8, 2412-2417.	2.8	14
39	Structural Deformation of Sm@C <sub>88</sub> under High Pressure. Scientific Reports, 2015, 5, 13398.	1.6	7
40	High pressure synthesis of amorphous TiO <sub>2</sub> nanotubes. AIP Advances, 2015, 5, 097128.	0.6	13
41	Pressure-dependent optical behaviors of colloidal CdSe nanoplatelets. Nanoscale, 2015, 7, 8835-8842.	2.8	20
42	Pressure-induced amorphization in orthorhombic Ta <sub>2</sub> O <sub>5</sub> : An intrinsic character of crystal. Journal of Applied Physics, 2014, 115, .	1.1	9
43	A New Carbon Phase Constructed by Long-Range Ordered Carbon Clusters from Compressing C <sub>70</sub> Solvates. Advanced Materials, 2014, 26, 7257-7263.	11.1	29
44	Effects of hydrothermal conditions on the morphology and phase composition of synthesized TiO <sub>2</sub> nanostructures. Physica B: Condensed Matter, 2014, 445, 42-47.	1.3	6
45	The control of the morphologies, structures and photoluminescence properties of C <sub>70</sub> nano/microcrystals with different trichlorobenzene isomers. CrystEngComm, 2014, 16, 3284.	1.3	10
46	Pressure-induced phase transitions of TiO <sub>2</sub> nanosheets with high reactive {001} facets. RSC Advances, 2014, 4, 12873-12877.	1.7	17
47	Structural Phase Transition and Photoluminescence Properties of YF <sub>3</sub> :Eu <sup>3+</sup> Nanocrystals under High Pressure. Journal of Physical Chemistry C, 2014, 118, 22739-22745.	1.5	29
48	Reversible pressure-induced polymerization of Fe(C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> doped C <sub>70</sub> . Carbon, 2013, 62, 447-454.	5.4	13
49	Pressure-Induced Amorphization in Gd <sub>2</sub> O <sub>3</sub> /Er <sup>3+</sup> Nanorods. Journal of Physical Chemistry C, 2013, 117, 8503-8508.	1.5	18
50	Shape-selective synthesis and optical performance of ceria nanocrystal/graphene hybrid composites. CrystEngComm, 2013, 15, 3739.	1.3	30
51	Structural phase transition and photoluminescence properties of YF <sub>3</sub> and YF <sub>3</sub> :Eu <sup>3+</sup> under high pressure. Physical Chemistry Chemical Physics, 2013, 15, 19925.	1.3	32
52	Morphology-Tuned Phase Transitions of Anatase TiO <sub>2</sub> Nanowires under High Pressure. Journal of Physical Chemistry C, 2013, 117, 8516-8521.	1.5	45
53	Synthesis of TiO <sub>2</sub> @C core-shell nanostructures with various crystal structures by hydrothermal and postheat treatments. Journal of Materials Research, 2013, 28, 449-453.	1.2	7
54	High pressure phase transition of ZnO/SiO <sub>2</sub> core/shell nanospheres. Journal of Applied Physics, 2013, 113, 054314.	1.1	5

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55	Controlled Synthesis of CeO <sub>2</sub> /Graphene Nanocomposites with Highly Enhanced Optical and Catalytic Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11741-11745.	1.5	198
56	Effect of Grain Size on Pressure-Induced Structural Transition in Mn <sub>3</sub> O <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 2165-2171.	1.5	41
57	Stability and phase transition of nanoporous rutile TiO <sub>2</sub> under high pressure. <i>RSC Advances</i> , 2012, 2, 9052.	1.7	19
58	Reversible Polymerization in Doped Fullerides Under Pressure: The Case Of C <sub>60</sub> (Fe(C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> ) <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2012, 116, 2643-2650.	1.2	33
59	High pressure behaviors of nanoporous anatase TiO <sub>2</sub> . <i>Materials Research Bulletin</i> , 2012, 47, 1396-1399.	2.7	14
60	High pressure and high temperature induced polymerization of C <sub>60</sub> nanotubes. <i>CrystEngComm</i> , 2011, 13, 3600.	1.3	14
61	Pressure-Induced Phase Transitions of C <sub>70</sub> Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8918-8922.	1.5	31
62	Synthesis of alkali-metal-doped C <sub>60</sub> nanotubes. <i>Diamond and Related Materials</i> , 2011, 20, 93-96.	1.8	4
63	Synthesis and solid-state studies of self-assembled C <sub>60</sub> microtubes. <i>Diamond and Related Materials</i> , 2011, 20, 178-182.	1.8	3
64	The Study of Structural Transition of ZnS Nanorods under High Pressure. <i>Journal of Physical Chemistry C</i> , 2011, 115, 357-361.	1.5	28
65	High-Pressure Studies on CeO <sub>2</sub> Nano-Octahedrons with a (111)-Terminated Surface. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4546-4551.	1.5	34
66	One-step synthesis, growth mechanism and photoluminescence properties of hollow GeO <sub>2</sub> walnuts. <i>CrystEngComm</i> , 2011, 13, 979-984.	1.3	20
67	Facile hydrothermal synthesis of CeO <sub>2</sub> nanosheets with high reactive exposure surface. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6720-6724.	2.8	37
68	X-ray diffraction of cubic Gd <sub>2</sub> O <sub>3</sub> /Er under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1123-1127.	0.7	18
69	The structural transition behavior of CdSe/ZnS core/shell quantum dots under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1149-1153.	0.7	14
70	High-pressure Raman study on CeO <sub>2</sub> nanospheres self-assembled by 5 nm CeO <sub>2</sub> nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1154-1157.	0.7	17
71	Simple Synthesis and Luminescence Characteristics of PVP-Capped GeO <sub>2</sub> Nanoparticles. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-5.	1.5	16
72	Synchrotron X-ray Diffraction and Infrared Spectroscopy Studies of C <sub>60</sub> H <sub>18</sub> under High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 714-719.	2.1	8

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73	Pressure-Induced Amorphization and Polyamorphism in One-Dimensional Single-Crystal TiO <sub>2</sub> Nanomaterials. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 309-314.	2.1	68
74	Raman Scattering Study of AlN Nanowires under High Pressure. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8241-8244.	1.5	9
75	Solvothermal synthesis of monodisperse self-assembly CeO <sub>2</sub> nanospheres and their enhanced blue-shifting in ultraviolet absorption. <i>Journal of Alloys and Compounds</i> , 2010, 503, 519-524.	2.8	24
76	Rotational dynamics of confined C <sub>60</sub> from near-infrared Raman studies under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22135-22138.	3.3	43
77	Ethylene glycol-mediated synthesis of nanoporous anatase TiO <sub>2</sub> rods and rutile TiO <sub>2</sub> self-assembly chrysanthemums. <i>Journal of Alloys and Compounds</i> , 2009, 471, 477-480.	2.8	36
78	Photoluminescence Up-conversion of CdSe/ZnS Core/shell Quantum Dots under High Pressure. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4737-4740.	1.5	12
79	Synthesis and Electrochemical Properties of TiO <sub>2</sub> @B@C Core-Shell Nanoribbons. <i>Crystal Growth and Design</i> , 2008, 8, 1812-1814.	1.4	20
80	Synthesis of High-Density Nanocavities inside TiO <sub>2</sub> @B Nanoribbons and Their Enhanced Electrochemical Lithium Storage Properties. <i>Inorganic Chemistry</i> , 2008, 47, 9870-9873.	1.9	62
81	Solvothermal synthesis of ZnS nanorods and their pressure modulated photoluminescence spectra. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 425227.	0.7	9
82	Synthesis of ZnS nanocrystals with controllable structure and morphology and their photoluminescence property. <i>Nanotechnology</i> , 2007, 18, 255602.	1.3	42