

# Xujie Lu

## List of Publications by Citations

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98  
papers

6,491  
citations

40  
h-index

80  
g-index

110  
ext. papers

7,444  
ext. citations

9.6  
avg, IF

5.79  
L-index

#	Paper	IF	Citations
98	Improved-Performance Dye-Sensitized Solar Cells Using Nb-Doped TiO <sub>2</sub> Electrodes: Efficient Electron Injection and Transfer. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 509-515	15.6	473
97	Aqueous Li-ion battery enabled by halogen conversion-intercalation chemistry in graphite. <i>Nature</i> , <b>2019</b> , 569, 245-250	50.4	378
96	Core-shell nanostructured "black" rutile titania as excellent catalyst for hydrogen production enhanced by sulfur doping. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 17831-8	16.4	370
95	Low-Cost High-Energy Potassium Cathode. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 2164-2167	16.4	366
94	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 753-756	16.4	341
93	Effective nonmetal incorporation in black titania with enhanced solar energy utilization. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 967	35.4	317
92	Pressure-Induced Phase Transformation, Reversible Amorphization, and Anomalous Visible Light Response in Organolead Bromide Perovskite. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11144-9	16.4	226
91	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13313-13317	11.5	193
90	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9965-8	16.4	155
89	Black brookite titania with high solar absorption and excellent photocatalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9650	13	150
88	Phase-controlled synthesis of cobalt sulfides for lithium ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4246-50	9.5	150
87	NaMV(PO) (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. <i>Nano Letters</i> , <b>2016</b> , 16, 7836-7841	11.5	146
86	Core-shell structured hollow SnO <sub>2</sub> /polypyrrole nanocomposite anodes with enhanced cyclic performance for lithium-ion batteries. <i>Nano Energy</i> , <b>2014</b> , 6, 73-81	17.1	141
85	Enhanced electron transport in Nb-doped TiO <sub>2</sub> nanoparticles via pressure-induced phase transitions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 419-26	16.4	139
84	Durable and Efficient Hollow Porous Oxide Spinel Microspheres for Oxygen Reduction. <i>Joule</i> , <b>2018</b> , 2, 337-348	27.8	138
83	Enhanced Structural Stability and Photo Responsiveness of CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> Perovskite via Pressure-Induced Amorphization and Recrystallization. <i>Advanced Materials</i> , <b>2016</b> , 28, 8663-8668	24	134
82	Antiperovskite LiOCl Superionic Conductor Films for Solid-State Li-Ion Batteries. <i>Advanced Science</i> , <b>2016</b> , 3, 1500359	13.6	120

81	Graphene/Fe <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> ternary nanocomposites as a high-performance anode for lithium ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 8607-14	9.5	114
80	A general preparation strategy for hybrid TiO <sub>2</sub> hierarchical spheres and their enhanced solar energy utilization efficiency. <i>Advanced Materials</i> , <b>2010</b> , 22, 3719-22	24	99
79	Li-rich anti-perovskite Li <sub>3</sub> OCl films with enhanced ionic conductivity. <i>Chemical Communications</i> , <b>2014</b> , 50, 11520-2	5.8	95
78	Treatment of wastewater containing azo dye reactive brilliant red X-3B using sequential ozonation and upflow biological aerated filter process. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 161, 241-5	12.8	95
77	Large-scale preparation of highly conductive three dimensional graphene and its applications in CdTe solar cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17366		84
76	Textile wastewater reuse as an alternative water source for dyeing and finishing processes: A case study. <i>Desalination</i> , <b>2010</b> , 258, 229-232	10.3	84
75	Improved visible-light photocatalysis of nano-Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> with dispersed s-bands. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3872		82
74	Conducting Interface in Oxide Homo Junction: Understanding of Superior Properties in Black TiO <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 5751-5	11.5	77
73	Green Emitting Single-Crystalline Bulk Assembly of Metal Halide Clusters with Near-Unity Photoluminescence Quantum Efficiency. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1579-1583	20.1	73
72	In situ growth of a MoSe <sub>2</sub> /Mo counter electrode for high efficiency dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2014</b> , 50, 4475-7	5.8	69
71	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 771-774	3.6	66
70	Heat transport enhancement of thermal energy storage material using graphene/ceramic composites. <i>Carbon</i> , <b>2014</b> , 75, 314-321	10.4	61
69	Low-temperature rapid synthesis of high-quality pristine or boron-doped graphene via Wurtz-type reductive coupling reaction. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10685		60
68	Reaction mechanism studies towards effective fabrication of lithium-rich anti-perovskites Li <sub>3</sub> OX (X= Cl, Br). <i>Solid State Ionics</i> , <b>2016</b> , 284, 14-19	3.3	58
67	Pressure-induced dramatic changes in organic-inorganic halide perovskites. <i>Chemical Science</i> , <b>2017</b> , 8, 6764-6776	9.4	57
66	One-step high-temperature solvothermal synthesis of TiO <sub>2</sub> /sulfide nanocomposite spheres and their solar visible-light applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 306-11	9.5	56
65	Pressure-induced amorphization in single-crystal Ta <sub>2</sub> O <sub>5</sub> nanowires: a kinetic mechanism and improved electrical conductivity. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13947-53	16.4	49
64	Reaching 90% Photoluminescence Quantum Yield in One-Dimensional Metal Halide CNHPbBr by Pressure-Suppressed Nonradiative Loss. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16001-16006	16.4	49

63	Reuse of printing and dyeing wastewater in processes assessed by pilot-scale test using combined biological process and sub-filter technology. <i>Journal of Cleaner Production</i> , <b>2009</b> , 17, 111-114	10.3	48
62	Dielectric Constant Controlled Solvothermal Synthesis of a TiO <sub>2</sub> Photocatalyst with Tunable Crystallinity: A Strategy for Solvent Selection. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 2789-2795	2.3	46
61	Mesoporous hollow TiO <sub>2</sub> microspheres with enhanced photoluminescence prepared by a smart amino acid template. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4888		44
60	Crystallinity control on photocatalysis and photoluminescence of TiO <sub>2</sub> -based nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 496, 234-240	5.7	42
59	Antiperovskites with Exceptional Functionalities. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905007	24	40
58	Treatment of wastewater containing Reactive Brilliant Blue KN-R using TiO <sub>2</sub> /BC composite as heterogeneous photocatalyst and adsorbent. <i>Chemosphere</i> , <b>2018</b> , 206, 777-783	8.4	40
57	Novel antimonate photocatalysts MSb <sub>2</sub> O <sub>6</sub> (M = Ca, Sr and Ba): a correlation between packing factor and photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 10047-52	3.6	39
56	Pressure-Suppressed Carrier Trapping Leads to Enhanced Emission in Two-Dimensional Perovskite (HA) (GA)Pb I. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17533-17539	16.4	37
55	Intelligent hydrated-sulfate template assisted preparation of nanoporous TiO <sub>2</sub> spheres and their visible-light application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 566-72	9.5	37
54	A one-pot method to grow pyrochlore H <sub>4</sub> Nb <sub>2</sub> O <sub>7</sub> -octahedron-based photocatalyst. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1942		36
53	Pressure responses of halide perovskites with various compositions, dimensionalities, and morphologies. <i>Matter and Radiation at Extremes</i> , <b>2020</b> , 5, 018201	4.7	35
52	Short O-O separation in layered oxide NaCoO enables an ultrafast oxygen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 23473-23479	11.5	35
51	Ta <sub>2</sub> O <sub>5</sub> nanowires: a novel synthetic method and their solar energy utilization. <i>Dalton Transactions</i> , <b>2012</b> , 41, 622-7	4.3	34
50	Enhanced Photocurrent of All-Inorganic Two-Dimensional Perovskite CsPbI <sub>3</sub> via Pressure-Regulated Excitonic Features. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2545-2551	16.4	34
49	Colored titania nanocrystals and excellent photocatalysis for water cleaning. <i>Catalysis Communications</i> , <b>2015</b> , 60, 55-59	3.2	32
48	Directional architecture of graphene/ceramic composites with improved thermal conduction for thermal applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2187-2193	13	32
47	Biomolecule-assisted route to prepare titania mesoporous hollow structures. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 11535-41	4.8	32
46	Regulating off-centering distortion maximizes photoluminescence in halide perovskites. <i>National Science Review</i> , <b>2021</b> , 8, nwa288	10.8	31

45	Adsorption and photooxidation of pharmaceuticals and personal care products on clay minerals. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2011</b> , 104, 61-73	1.6	30
44	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. <i>Scientific Reports</i> , <b>2014</b> , 4, 5426	4.9	29
43	The production of large bilayer hexagonal graphene domains by a two-step growth process of segregation and surface-catalytic chemical vapor deposition. <i>Carbon</i> , <b>2012</b> , 50, 2703-2709	10.4	29
42	New facile synthesis of TiO <sub>2</sub> hollow sphere with an opening hole and its enhanced rate performance in lithium-ion batteries. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 784	3.6	29
41	Non-Aqueous Preparation of High-Crystallinity Hierarchical TiO <sub>2</sub> Hollow Spheres with Excellent Photocatalytic Efficiency. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 2879-2883	2.3	27
40	Enhanced ionic conductivity with Li <sub>7</sub> O <sub>2</sub> Br <sub>3</sub> phase in Li <sub>3</sub> OBr anti-perovskite solid electrolyte. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 101904	3.4	27
39	Defect Perovskites under Pressure: Structural Evolution of Cs <sub>2</sub> SnX <sub>6</sub> (X = Cl, Br, I). <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24004-24013	3.8	26
38	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10119-10122	3.6	22
37	Regulating Exciton-Phonon Coupling to Achieve a Near-Unity Photoluminescence Quantum Yield in One-Dimensional Hybrid Metal Halides. <i>Advanced Science</i> , <b>2021</b> , 8, e2100786	13.6	21
36	Oxygen content tailored magnetic and electronic properties in cobaltite double perovskite thin films. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 093102	3.4	18
35	Chemistry Design Towards a Stable Sulfide-Based Superionic Conductor Li Cu Ge S. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7673-7677	16.4	18
34	Highly tunable properties in pressure-treated two-dimensional Dion-Jacobson perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 16121-16126	11.5	18
33	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700672	24	17
32	Room-temperature ferromagnetism in Ti <sub>1-x</sub> V <sub>x</sub> O <sub>2</sub> nanocrystals synthesized from an organic-free and water-soluble precursor. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 499, 160-165	5.7	16
31	One-pot synthesis of BiSbO <sub>4</sub> nanophotocatalyst with enhanced visible-light performance. <i>CrystEngComm</i> , <b>2011</b> , 13, 3920	3.3	15
30	Oxygen vacancy-driven evolution of structural and electrical properties in SrFeO <sub>3-δ</sub> thin films and a method of stabilization. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 141906	3.4	15
29	Pressure-Regulated Dynamic Stereochemical Role of Lone-Pair Electrons in Layered BiOS. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9702-9707	6.4	14
28	In-situ investigation of pressure effect on structural evolution and conductivity of Na <sub>3</sub> SbS <sub>4</sub> superionic conductor. <i>Journal of Power Sources</i> , <b>2018</b> , 401, 111-116	8.9	13

27	TiO <sub>2</sub> nanotubes grown on graphene sheets as advanced anode materials for high rate lithium ion batteries. <i>RSC Advances</i> , <b>2014</b> , 4, 36372	3.7	12
26	Bulk moduli and high pressure crystal structure of U <sub>3</sub> Si <sub>2</sub> . <i>Journal of Nuclear Materials</i> , <b>2019</b> , 523, 135-143	3.3	11
25	One-Step Hydrothermal Synthesis of High-Performance Gas-Sensing Crystals CdIn <sub>2</sub> O <sub>4</sub> with Octahedral Shape. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 4104-4108	3.5	11
24	Pressure-Suppressed Carrier Trapping Leads to Enhanced Emission in Two-Dimensional Perovskite (HA) <sub>2</sub> (GA)Pb <sub>2</sub> I <sub>7</sub> . <i>Angewandte Chemie</i> , <b>2020</b> , 132, 17686-17692	3.6	11
23	Suppression of superconductivity and structural phase transitions under pressure in tetragonal FeS. <i>Scientific Reports</i> , <b>2016</b> , 6, 31077	4.9	10
22	Enhanced ionic conductivity of sulfide-based solid electrolyte by incorporating lanthanum sulfide. <i>Ceramics International</i> , <b>2014</b> , 40, 15497-15501	5.1	10
21	CuIn(S,Se) <sub>2</sub> thin films prepared from a novel thioacetic acid-based solution and their photovoltaic application. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 7548-54	3.6	10
20	Pressure-induced large enhancement of Néel temperature and electric polarization in the hexagonal multiferroic Lu <sub>0.5</sub> Sc <sub>0.5</sub> FeO <sub>3</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	10
19	Treatment of Azo Dye-Containing Wastewater Using Integrated Processes. <i>Handbook of Environmental Chemistry</i> , <b>2010</b> , 133-155	0.8	9
18	TiO <sub>2</sub> -Based Nanomaterials for Advanced Environmental and Energy-Related Applications. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-3	3.2	8
17	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe <sub>2</sub> . <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	8
16	Tailoring the photocatalytic activity of layered perovskites by opening the interlayer vacancy via ion-exchange reactions. <i>CrystEngComm</i> , <b>2015</b> , 17, 8703-8709	3.3	6
15	Pressure-enhanced interplay between lattice, spin, and charge in the mixed perovskite La <sub>2</sub> FeMnO <sub>6</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	5
14	Graphite-based N-TiO <sub>2</sub> composites photocatalyst for removal of HCHO in water. <i>Desalination and Water Treatment</i> , <b>2015</b> , 56, 1681-1688		5
13	Phase transition mechanism and bandgap engineering of Sb <sub>2</sub> S <sub>3</sub> at gigapascal pressures. <i>Communications Chemistry</i> , <b>2021</b> , 4,	6.3	5
12	Study on treatment of aquaculture wastewater using a hybrid constructed wetland. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2017</b> , 61, 012015	0.3	4
11	Chemistry Design Towards a Stable Sulfide-Based Superionic Conductor Li <sub>4</sub> Cu <sub>8</sub> Ge <sub>3</sub> S <sub>12</sub> . <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7755-7759	3.6	4
10	Study on denitrification of aquaculture wastewater using immobilized microorganism technology <b>2011</b> ,		3

9	Pressure-induced robust emission in a zero-dimensional hybrid metal halide (C <sub>9</sub> NH <sub>20</sub> ) <sub>6</sub> Pb <sub>3</sub> Br <sub>12</sub> . <i>Matter and Radiation at Extremes</i> , <b>2021</b> , 6, 058401	4-7	3
8	Pressure-Enhanced Photocurrent in One-Dimensional SbSI via Lone-Pair Electron Reconfiguration. <i>Materials</i> , <b>2022</b> , 15, 3845	3-5	3
7	Epitaxial growth and physical properties of ternary nitride thin films by polymer-assisted deposition. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 081907	3-4	2
6	Excellent Carrier Transport Property of Hybrid Perovskites Sustained under High Pressures. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 154-161	20-1	2
5	Structural behavior of a stuffed derivative of $\beta$ -quartz, Mg <sub>0.5</sub> AlSiO <sub>4</sub> , at high temperature: an in situ synchrotron XRD study. <i>Physics and Chemistry of Minerals</i> , <b>2019</b> , 46, 717-725	1-6	1
4	Synthesis of Two-Dimensional CsPbX (X = Br and I) with a Stable Structure and Tunable Bandgap by CsPbX Phase Separation.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2555-2562	6-4	1
3	Metallic interface induced by electronic reconstruction in crystalline-amorphous bilayer oxide films. <i>Science Bulletin</i> , <b>2019</b> , 64, 1567-1572	10-6	0
2	Pressure-Induced Amorphization and Crystallization of Heterophase Pd Nanostructures.. <i>Small</i> , <b>2022</b> , e2106396	11	0
1	DYNAMIC MEMBRANE TECHNOLOGY FOR PRINTING WASTEWATER REUSE. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 1943-1948	1-1	