

# Liang-Jun Yin

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,624  
citations

236925

25  
h-index

189892

50  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2478  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Porous WC-Based Self-Supported Ceramic Electrodes for High Current Density Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2022, 9, e2106029.	11.2	24
2	Hybrid silica-carbon bilayers anchoring on FeSiAl surface with bifunctions of enhanced anti-corrosion and microwave absorption. <i>Carbon</i> , 2021, 173, 185-193.	10.3	114
3	Improving oxidation resistance of ZrB <sub>2</sub> -based ceramics by LaF <sub>3</sub> doping via oxidation-induced self-healing mechanism. <i>Ceramics International</i> , 2021, 47, 9504-9512.	4.8	4
4	Graphene-Decorated Boron-Carbon-Nitride-Based Metal-Free Catalysts for an Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 3861-3868.	5.1	19
5	Influence of dispersion method of LaF <sub>3</sub> in ZrB <sub>2</sub> -based ceramics on high-temperature oxidation resistance. <i>Ceramics International</i> , 2021, 47, 17560-17569.	4.8	1
6	Self-Supported Ceramic Electrode of 1T-2H MoS <sub>2</sub> Grown on the TiC Membrane for Hydrogen Production. <i>Chemistry of Materials</i> , 2021, 33, 6217-6226.	6.7	26
7	Highly Efficient and Robust MoS <sub>2</sub> Nanoflake-Modified-TiN-Ceramic-Membrane Electrode for Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 6730-6739.	5.1	17
8	Atomic-Scale Layer-by-Layer Deposition of FeSiAl@ZnO@Al <sub>2</sub> O <sub>3</sub> Hybrid with Threshold Anti-Corrosion and Ultra-High Microwave Absorption Properties in Low-Frequency Bands. <i>Nano-Micro Letters</i> , 2021, 13, 161.	27.0	103
9	Inorganic/organic bilayer of silica/acrylic polyurethane decorating FeSiAl for enhanced anti-corrosive microwave absorption. <i>Applied Surface Science</i> , 2021, 567, 150829.	6.1	27
10	Plasma-induced FeSiAl@Al <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> core-shell structure for exceptional microwave absorption and anti-oxidation at high temperature. <i>Chemical Engineering Journal</i> , 2020, 384, 123371.	12.7	161
11	Synthesis of G-La <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> :Eu <sup>2+</sup> phosphors by addition of AlF <sub>3</sub> : Experimental and theoretical analysis. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156127.	5.5	4
12	Hard SiOC Microbeads as a High-Performance Lithium-Ion Battery Anode. <i>ACS Applied Energy Materials</i> , 2020, 3, 10183-10191.	5.1	22
13	Bifunctional water-electrolysis-catalysts meeting band-diagram analysis: case study of $\alpha$ -FeP electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20021-20029.	10.3	25
14	Nitrogen-Doped Oxygenated Molybdenum Phosphide as an Efficient Electrocatalyst for Hydrogen Evolution in Alkaline Media. <i>Frontiers in Chemistry</i> , 2020, 8, 733.	3.6	16
15	Porous quasi-graphitic carbon sheets for unprecedented sodium storage. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2443-2450.	6.0	1
16	Bifunctional carbon-encapsulated FeSiAl hybrid flakes for enhanced microwave absorption properties and analysis of corrosion resistance. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154079.	5.5	53
17	Direct observation of Eu atoms in AlN lattice and the first-principles simulations. <i>Journal of the American Ceramic Society</i> , 2019, 102, 310-319.	3.8	20
18	Optical Analysis Using Effective Medium Theory and Finite Element Method to Study the Enhanced Light Absorption in Porous BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> Phosphor. <i>Physics of the Solid State</i> , 2019, 61, 1450-1455.	0.6	1

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19	Enhancing the luminescent efficiency of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> by coating graphitic carbon nitride: Toward white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2019, 801, 10-18.	5.5	37
20	Carbon-decorated LiMn <sub>2</sub> O <sub>4</sub> nanorods with enhanced performance for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 805, 624-630.	5.5	12
21	3D Hollow Quasi-Graphite Capsules/Polyaniline Hybrid with a High Performance for Room-Temperature Ammonia Gas Sensors. <i>ACS Sensors</i> , 2019, 4, 2343-2350.	7.8	64
22	Porous Eleocharis@MnPE Layered Hybrid for Synergistic Adsorption and Catalytic Biodegradation of Toxic Azo Dyes from Industrial Wastewater. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2161-2170.	10.0	102
23	Achieving an efficient La <sub>3</sub> Si <sub>8</sub> N <sub>11</sub> O <sub>4</sub> :Eu <sup>2+</sup> phosphor via chemical reduction of nano-scale carbon film: Toward white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2019, 799, 360-367.	5.5	25
24	Enhanced thermal degradation stability of the Sr <sub>2</sub> Si <sub>5</sub> N <sub>8</sub> :Eu <sup>2+</sup> phosphor by ultra-thin Al <sub>2</sub> O <sub>3</sub> coating through the atomic layer deposition technique in a fluidized bed reactor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5772-5781.	5.5	26
25	High-Temperature Oxidation-Resistant Zr <sub>0.4</sub> B <sub>0.6</sub> /SiC Nanohybrid for Enhanced Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15869-15880.	8.0	150
26	<i>In Vivo</i> and <i>In Vitro</i> Monitoring of Amyloid Aggregation via BSA@FGQDs Multimodal Probe. <i>ACS Sensors</i> , 2019, 4, 200-210.	7.8	54
27	Investigation of electrical properties of pressureless sintered ZrB <sub>2</sub> -based ceramics. <i>Ceramics International</i> , 2019, 45, 7717-7722.	4.8	13
28	Eu Sites in Eu-Doped AlON Phosphors: Anomalous Eu Occupancy Layers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3110-3114.	3.1	9
29	Oxidation behaviour of plasma-sprayed ZrB <sub>2</sub> -SiC coatings. <i>Ceramics International</i> , 2019, 45, 2385-2392.	4.8	25
30	Heterostructured Nanorings of Fe <sub>3</sub> O <sub>4</sub> @C Hybrid with Enhanced Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9369-9378.	8.0	244
31	Insight into the evolution mechanism of carbon film and Eu valence in carbon coated BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> phosphor annealed in air. <i>Ceramics International</i> , 2018, 44, 8898-8903.	4.8	14
32	High-performance infrared emissivity of micro-arc oxidation coatings formed on titanium alloy for aerospace applications. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 579-591.	2.1	12
33	A novel strategy to motivate the luminescence efficiency of a phosphor: drilling nanoholes on the surface. <i>Chemical Communications</i> , 2018, 54, 3480-3483.	4.1	25
34	The crystal structure and luminescence properties of a novel green-yellow emitting Ca <sub>1.5</sub> Mg <sub>0.5</sub> Si <sub>11</sub> Li <sub>x</sub> O <sub>41</sub> :Ce <sup>3+</sup> phosphor with high quantum efficiency and thermal stability. <i>Dalton Transactions</i> , 2018, 47, 9834-9844.	3.3	14
35	Pursuing enhanced oxidation resistance of ZrB <sub>2</sub> ceramics by SiC and WC co-doping. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5311-5318.	5.7	24
36	Highly Stable Modified Phosphors of Ba <sub>2</sub> SiO <sub>4</sub> :Eu <sup>2+</sup> by Forming a Robust Hydrophobic Inorganic Surface Layer of Silicon-Oxy-Imide-Carbide. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11616-11622.	3.1	12

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37	Facile Synthesis of Three-Dimensional Sandwiched MnO <sub>2</sub> @GCs/MnO <sub>2</sub> Hybrid Nanostructured Electrode for Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 18872-18882.	8.0	52
38	Mechanistic study of graphitic carbon layer and nanosphere formation on the surface of T-ZnO. Inorganic Chemistry Frontiers, 2017, 4, 978-985.	6.0	12
39	Luminescent properties and microstructure of SiC doped AlON: Eu <sup>2+</sup> phosphors. Journal of Alloys and Compounds, 2017, 725, 217-226.	5.5	10
40	Highly Stable Red-Emitting Sr <sub>2</sub> Si <sub>5</sub> N <sub>8</sub> :Eu <sup>2+</sup> Phosphor with a Hydrophobic Surface. Journal of the American Ceramic Society, 2017, 100, 257-264.	3.8	34
41	Insight the Luminescence Properties of AlON: Eu, Mg Phosphor under VUV Excitation. Materials, 2017, 10, 723.	2.9	9
42	Transition of Emission Colours as a Consequence of Heat-Treatment of Carbon Coated Ce <sup>3+</sup> -Doped YAG Phosphors. Materials, 2017, 10, 1180.	2.9	10
43	Preparation of Sr <sub>1-x</sub> Ca <sub>x</sub> LiAl <sub>3</sub> N <sub>4</sub> :Eu <sup>2+</sup> Solid Solutions and Their Photoluminescence Properties. Journal of the American Ceramic Society, 2016, 99, 3273-3279.	3.8	28
44	Synthesis, Crystal Structure, and Luminescence Properties of Y <sub>4</sub> Si <sub>2</sub> O <sub>7</sub> N <sub>2</sub> :Eu <sup>2+</sup> Oxynitride Phosphors. Journal of the American Ceramic Society, 2016, 99, 183-190.	3.8	19
45	Vapor-Phase Solid Growth of Three-Dimensional Graphite-like Capsules with Delicate Morphology and Atomic-level Thickness Control. Crystal Growth and Design, 2016, 16, 5040-5048.	3.0	27
46	Intriguing luminescence properties of (Ba, Sr) <sub>3</sub> Si <sub>6</sub> O <sub>9</sub> N <sub>4</sub> : Eu <sup>2+</sup> phosphors via modifying synthesis method and cation substitution. Journal of Alloys and Compounds, 2016, 682, 481-488.	5.5	31
47	Facile Synthesis of Fe <sub>3</sub> O <sub>4</sub> /GCs Composites and Their Enhanced Microwave Absorption Properties. ACS Applied Materials & Interfaces, 2016, 8, 6101-6109.	8.0	518
48	Enhanced Optical Performance of BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> Phosphor by a Novel Method of Carbon Coating. Journal of Physical Chemistry C, 2016, 120, 2355-2361.	3.1	51
49	Improved Blue-Emitting AlN:Eu <sup>2+</sup> Phosphors by Alloying with GaN. Journal of the American Ceramic Society, 2015, 98, 3897-3904.	3.8	12
50	Luminescent properties of a novel Al <sub>100</sub> N <sub>8</sub> :Eu <sup>2+</sup> phosphor by a mechanochemical activation route. Optical Materials, 2015, 42, 511-515.	3.6	13
51	Synthesis of high-purity CuO nanoleaves and analysis of their ethanol gas sensing properties. RSC Advances, 2015, 5, 34788-34794.	3.6	39
52	Preparation and microwave-absorbing property of BaFe <sub>12</sub> O <sub>19</sub> nanoparticles and BaFe <sub>12</sub> O <sub>19</sub> /Fe <sub>3</sub> C/CNTs composites. RSC Advances, 2015, 5, 91665-91669.	3.6	42
53	Synthesis of pure AlON: Eu <sup>2+</sup> , Mg <sup>2+</sup> phosphors by a mechanochemical activation route. Ceramics International, 2013, 39, 2601-2604.	4.8	18
54	Europium location in the AlN: Eu green phosphor prepared by a gas-reduction-nitridation route. Journal of Applied Physics, 2012, 111, .	2.5	31

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55	Synthesis and photoluminescence of Eu, Mg-alon phosphors by carbothermal reduction. Journal of Luminescence, 2012, 132, 671-675.	3.1	16
56	The Effects of Fluxes on AlN:Eu <sup>2+</sup> Blue Phosphors Synthesized by a Carbothermal Reduction Method. Journal of the American Ceramic Society, 2011, 94, 3842-3846.	3.8	16
57	Optimization of BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> phosphors by the substitution of Si-N bonds for Al-O bonds. Journal of Rare Earths, 2010, 28, 281-284.	4.8	2
58	High Thermal Stability and Photoluminescence of Si <sup>4+</sup> -Na <sup>+</sup> -Codoped BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> Phosphors. Journal of the American Ceramic Society, 2010, 93, 1534-1536.	3.8	59
59	Synthesis of Eu <sup>2+</sup> -Doped AlN Phosphors by Carbothermal Reduction. Journal of the American Ceramic Society, 2010, 93, 1702-1707.	3.8	30
60	Synthesis and photoluminescence of Eu <sup>2+</sup> -Mg <sup>2+</sup> co-doped $\beta$ -AlON phosphors. Materials Letters, 2009, 63, 1511-1513.	2.6	45