

# Saifang Huang

## List of Publications by Year in descending order

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59  
papers

1,551  
citations

394421

19  
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315739

38  
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60  
all docs

60  
docs citations

60  
times ranked

1551  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Yellow-Emitting Whitlockite-type Structure $\text{Sr}_{1.75}\text{Ca}_{1.25}(\text{PO}_4)_2:\text{Eu}^{2+}$ Phosphor for Near-UV Pumped White Light-Emitting Devices. <i>Inorganic Chemistry</i> , 2014, 53, 5129-5135.	4.0	258
2	Preparation and thermal properties of fatty acid/diatomite form-stable composite phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 273-279.	6.2	141
3	Cation Substitution Dependent Bimodal Photoluminescence in Whitlockite Structural $\text{Ca}_x\text{Sr}_{3-x}(\text{PO}_4)_2:\text{Eu}^{2+}$ (0 $\leq$ x $\leq$ 1). <i>J. Electrochem. Soc.</i> 164, 10, 1784-1791.	10.7	101
4	High-performance flexible all-solid-state asymmetric supercapacitors from nanostructured electrodes prepared by oxidation-assisted dealloying protocol. <i>Chemical Engineering Journal</i> , 2018, 331, 527-535.	12.7	113
5	Experimental and DFT studies of flower-like Ni-doped Mo <sub>2</sub> C on carbon fiber paper: A highly efficient and robust HER electrocatalyst modulated by Ni(NO <sub>3</sub> ) <sub>2</sub> concentration. <i>Journal of Advanced Ceramics</i> , 2022, 11, 1294-1306.	17.4	75
6	Wrinkled Ni-doped Mo <sub>2</sub> C coating on carbon fiber paper: An advanced electrocatalyst prepared by molten-salt method for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019, 319, 293-301.	5.2	60
7	A novel high-strength lithium disilicate glass-ceramic featuring a highly intertwined microstructure. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1083-1094.	5.7	55
8	Nucleation and Crystallization Kinetics of a Multicomponent Lithium Disilicate Glass by in Situ and Real-Time Synchrotron X-ray Diffraction. <i>Crystal Growth and Design</i> , 2013, 13, 4031-4038.	3.0	47
9	Crystalline phase formation, microstructure and mechanical properties of a lithium disilicate glass-ceramic. <i>Journal of Materials Science</i> , 2013, 48, 251-257.	3.7	47
10	Fabrication of a high-strength lithium disilicate glass-ceramic in a complex glass system. <i>Journal of Asian Ceramic Societies</i> , 2013, 1, 46-52.	2.3	40
11	PbO <sub>2</sub> electrodes prepared by pulse reverse electrodeposition and their application in benzoic acid degradation. <i>Journal of Electroanalytical Chemistry</i> , 2018, 812, 74-81.	3.8	28
12	Trace phase formation, crystallization kinetics and crystallographic evolution of a lithium disilicate glass probed by synchrotron XRD technique. <i>Scientific Reports</i> , 2015, 5, 9159.	3.3	25
13	Self-organized ZnO nanorods prepared by anodization of zinc in NaOH electrolyte. <i>RSC Advances</i> , 2016, 6, 72968-72974.	3.6	24
14	$\beta$ -Sialon nanowires, nanobelts and hierarchical nanostructures: morphology control, growth mechanism and cathodoluminescence properties. <i>Nanoscale</i> , 2014, 6, 424-432.	5.6	23
15	CuCo <sub>2</sub> S <sub>4</sub> nanotubes on carbon fiber papers for high-performance all-solid-state asymmetric supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8636-8648.	2.2	23
16	Synthesis and formation mechanism of twinned SiC nanowires made by a catalyst-free thermal chemical vapour deposition method. <i>RSC Advances</i> , 2014, 4, 18360-18364.	3.6	22
17	Structural Response of Lithium Disilicate in Glass Crystallization. <i>Crystal Growth and Design</i> , 2014, 14, 5144-5151.	3.0	21
18	Investigation of phase evolution of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> (CCTO) by in situ synchrotron high-temperature powder diffraction. <i>Journal of Solid State Chemistry</i> , 2014, 211, 58-62.	2.9	21

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19	Preparation, Structure, and Upâ€Conversion Luminescence of Yb <sup>3+</sup> /Er <sup>3+</sup> Codoped SrIn <sub>2</sub> O <sub>4</sub> Phosphors. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1182-1187.	3.8	20
20	Synthesis, neutron diffraction and photoluminescence properties of a whitlockite structured Ca <sub>9</sub> MgLi(PO <sub>4</sub> ) <sub>7</sub> :Pr <sup>3+</sup> phosphor. <i>Ceramics International</i> , 2020, 46, 27476-27483.	4.8	20
21	Nd-Sialon Microcrystals with an Orthogonal Array. <i>Crystal Growth and Design</i> , 2010, 10, 2439-2442.	3.0	19
22	Crystallization of a high-strength lithium disilicate glass-ceramic: An XRD and solid-state NMR investigation. <i>Journal of Non-Crystalline Solids</i> , 2017, 457, 65-72.	3.1	19
23	In Situ High-Temperature Crystallographic Evolution of a Nonstoichiometric Li <sub>2</sub> O·2SiO <sub>2</sub> Glass. <i>Inorganic Chemistry</i> , 2013, 52, 14188-14195.	4.0	18
24	Greenish-yellow emitting Ca <sub>9</sub> MgLi(PO <sub>4</sub> ) <sub>7</sub> :Dy <sup>3+</sup> phosphors â€ Photoluminescence and thermal stability. <i>Journal of Luminescence</i> , 2021, 229, 117675.	3.1	18
25	Ultra-narrow-band blue-emitting K <sub>2</sub> SrBa(PO <sub>4</sub> ) <sub>2</sub> :Eu <sup>2+</sup> phosphor with superior efficiency and thermal stability. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162066.	5.5	18
26	Phase control and stabilization of 1T-MoS <sub>2</sub> via black TiO <sub>2</sub> nanotube arrays supporting for electrocatalytic hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2022, 68, 71-77.	12.9	18
27	Synthesis of Al <sub>8</sub> B <sub>4</sub> C <sub>7</sub> ceramic powder from Al/B <sub>4</sub> C/C mixtures. <i>Powder Technology</i> , 2012, 226, 269-273.	4.2	16
28	Ni(NO <sub>3</sub> ) <sub>2</sub> -Assisted Catalytic Synthesis and Photoluminescence Property of Ultralong Single Crystal Sialon Nanobelts. <i>Crystal Growth and Design</i> , 2013, 13, 10-14.	3.0	16
29	TiO <sub>2</sub> with hybrid nanostructures via anodization: fabrication and its mechanism. <i>Scripta Materialia</i> , 2013, 69, 374-376.	5.2	15
30	Structure tailoring and defect engineering of LED phosphors with enhanced thermal stability and superior quantum efficiency. <i>Chemical Engineering Journal</i> , 2022, 435, 133873.	12.7	15
31	Achieving enhanced densification and superior ionic conductivity of garnet electrolytes via a co-doping strategy coupled with pressureless sintering. <i>Journal of the European Ceramic Society</i> , 2022, 42, 5023-5028.	5.7	14
32	Phase behavior of serpentine mineral by carbothermal reduction nitridation. <i>Applied Clay Science</i> , 2012, 57, 86-90.	5.2	13
33	Microwave-Assisted Synthesis of High Dielectric Constant CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> from Solâ€Gel Precursor. <i>Journal of Electronic Materials</i> , 2015, 44, 2243-2249.	2.2	13
34	Preparation and mechanical properties of NiCrâ€Al <sub>2</sub> O <sub>3</sub> â€ZrO <sub>2</sub> (8Y) ceramic composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 554, 1-5.	5.6	12
35	Microstructural and Mechanical Characterization of Pressureâ€Less Sintered AlNâ€polytypoid Based Composites by Compositional Design. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2044-2050.	3.8	12
36	Pressureless sintering of Al-free Ta-doped lithium garnets Li <sub>7-x</sub> La <sub>3</sub> Zr <sub>2-x</sub> Ta <sub>x</sub> O <sub>12</sub> and the degradation mechanism in humid air. <i>Ceramics International</i> , 2019, 45, 20954-20960.	4.8	12

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37	Investigation of the Solid-Solution Limit, Crystal Structure, and Thermal Quenching Mitigation of Sr-Substituted $\text{Rb}_2\text{CaP}_2\text{O}_7$ :Eu <sup>2+</sup> Phosphors for White LED Applications. <i>Inorganic Chemistry</i> , 2022, 61, 1627-1635.	4.0	12
38	Synthesis and characterization of single-crystalline phase $\text{Li}-\text{Sialon}$ . <i>Ceramics International</i> , 2012, 38, 3391-3395.	4.8	11
39	The effect of water vapor on structure and electrochemical performance of an aluminum-free niobium-doped garnet electrolyte. <i>Ceramics International</i> , 2020, 46, 3889-3895.	4.8	11
40	Crystal structure of $\text{NdSi}_6\text{Al}_z\text{O}_{10}\text{N}_z$ ( $z = 0.4$ ) determined by single-crystal X-ray diffraction. <i>Dalton Transactions</i> , 2011, 40, 1261-1266.	3.3	10
41	Ca/Sr ratio dependent structure and up-conversion luminescence of $(\text{Ca}_x\text{Sr}_{1-x})_2\text{In}_2\text{O}_4\text{Yb}^{3+}/\text{Ho}^{3+}$ phosphors. <i>RSC Advances</i> , 2015, 5, 59403-59407.	3.1	10
42	$\text{Y}_2\text{-Si}_3\text{N}_4$ Microcrystals Prepared by Carbothermal Reduction-Nitridation of Quartz. <i>Materials</i> , 2019, 12, 3622.	2.9	10
43	Electrochemical incorporation of heteroatom into surface reconstruction induced Ni vacancy of $\text{Ni}_x\text{O}$ nanosheet for enhanced water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 3030-3039.	9.4	9
44	A porous (La, Sm) co-doped Sialon-polytypoid ceramic with colour and structure differences in multilayers. <i>CrystEngComm</i> , 2013, 15, 8552.	2.6	8
45	Physicochemical Characterization of $\text{PbO}_2$ Coatings Electrosynthesized from a Methanesulfonate Electrolytic Solution. <i>Journal of the Electrochemical Society</i> , 2018, 165, D670-D675.	2.9	8
46	Electrochemical properties of $\text{Li}_{6-y}\text{La}_3\text{Ba}_y\text{NbZrO}_{12}$ lithium garnet oxide solid-state electrolytes with co-doping barium and zirconium. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158600.	5.5	8
47	Preparation, Microstructure, and Mechanical Properties of Spinel-Corundum-Sialon Composite Materials from Waste Fly Ash and Aluminum Dross. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-10.	1.8	6
48	Effect of hBN addition on the fabrication, mechanical and tribological properties of Sialon materials. <i>Ceramics International</i> , 2022, 48, 7715-7722.	4.8	6
49	Co-deposition of Ag and $\text{Co}_3\text{O}_4$ on black $\text{TiO}_2-x$ nanotubes with enhanced photocatalytic activity under visible light irradiation. <i>Journal of Materials Science</i> , 2022, 57, 2455-2466.	3.7	6
50	The effects of $\text{SiC}_p$ addition on the $z$ -value and mechanical properties of $\text{Y}_2\text{-Sialon}/\text{SiC}_p$ refractories. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 387-392.	1.1	4
51	Correction: $\text{Y}_2\text{-Sialon}$ nanowires, nanobelts and hierarchical nanostructures: morphology control, growth mechanism and cathodoluminescence properties. <i>Nanoscale</i> , 2016, 8, 14279-14279.	5.6	3
52	Transmission electron microscopy study on crack propagation characteristics of pressureless sintered $15\text{R-Y}_2\text{-Sialon}$ polytypoid composite. <i>Ceramics International</i> , 2014, 40, 1045-1049.	4.8	2
53	Investigation on lanthanide-dependent $z$ value of JEM-phase Sialon. <i>RSC Advances</i> , 2014, 4, 6556.	3.6	1
54	$\text{LnAl}_2\text{N}_3$ Type Nitrides $\text{LnAl}(\text{Si}_4\text{Al}_x\text{N}_x)\text{N}_7\text{O}$ with Unusual $[\text{AlN}_6]$ Octahedral Coordination. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3886-3891.	13.8	1

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55	Phase Analysis of Forsterite in Carbothermal Reduction Processing. <i>Advanced Materials Research</i> , 0, 105-106, 848-850.	0.3	0
56	LnAl(Si <sub>4</sub> ) <sub>7</sub> O <sub>17</sub> with Unusual [AlN <sub>6</sub> ] Octahedral Coordination. <i>Angewandte Chemie</i> , 2017, 129, 3944-3949.	2.0	0
57	Innenr&uuml;cktitelbild: LnAl(Si <sub>4</sub> ) <sub>7</sub> O <sub>17</sub> with Unusual [AlN <sub>6</sub> ] Octahedral Coordination ( <i>Angew. Chem.</i> 14/2017). <i>Angewandte Chemie</i> , 2017, 129, 4125-4125.	2.0	0
58	Mechanical response of the Cr <sub>3</sub> C <sub>2</sub> -NiCr coating-substrate system during nanoindentation process. <i>International Journal of Modern Physics B</i> , 2019, 33, 1940026.	2.0	0
59	Phase assemblage and properties of a nonoxide composite fabricated by a two-step gas-pressure sintering. <i>International Journal of Modern Physics B</i> , 2020, 34, 2040046.	2.0	0