Yin Liu

List of Publications by Year
in descending order

71	1,323	304368	414034
papers	citations	22 h-index	32 g-index

71	71	71	1461
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Helical van der Waals crystals with discretized Eshelby twist. Nature, 2019, 570, 358-362.	13.7	91
2	Synthesis of Yttrium Aluminum Garnet from Yttrium and Aluminum Isobutyrate Precursors. Journal of the American Ceramic Society, 1996, 79, 385-394.	1.9	74
3	Effects of plastic mulch film residues on soil-microbe-plant systems under different soil pH conditions. Chemosphere, 2021, 267, 128901.	4.2	72
4	Highâ€entropy transparent fluoride laser ceramics. Journal of the American Ceramic Society, 2020, 103, 750-756.	1.9	63
5	Transparent alumina ceramics fabricated by 3D printing and vacuum sintering. Journal of the European Ceramic Society, 2021, 41, 781-791.	2.8	54
6	Tunable room-temperature ferromagnetism in Co-doped two-dimensional van der Waals ZnO. Nature Communications, 2021, 12, 3952.	5.8	54
7	Transparent and Luminescent ZnS Ceramics Consolidated by Vacuum Hot Pressing Method. Journal of the American Ceramic Society, 2015, 98, 2972-2975.	1.9	48
8	In Situ Cryogenic Transmission Electron Microscopy for Characterizing the Evolution of Solidifying Water Ice in Colloidal Systems. Microscopy and Microanalysis, 2014, 20, 330-337.	0.2	37
9	Electron beam induced deposition of silicon nanostructures from a liquid phase precursor. Nanotechnology, 2012, 23, 385302.	1.3	32
10	Luminescence of delafossite-type CuAlO₂ fibers with Eu substitution for Al cations. Science and Technology of Advanced Materials, 2016, 17, 200-209.	2.8	31
11	Spark Plasma Sintering of Hexagonal Structure <scp><scp>Yb</scp></scp>³⁺â€Doped <scp><scp>Sr</scp></scp>₅(<scp><scp>PO</scp></scp>₄)₃<scp><scp>F</scp></scp> Transparent Ceramics. Journal of the American Ceramic Society, 2013, 96, 1694-1697.	1.9	29
12	Electrical conductivity anomaly and X-ray photoelectron spectroscopy investigation of YCr1â^'xMnxO3 negative temperature coefficient ceramics. Applied Physics Letters, 2014, 104, .	1.5	29
13	Hot-pressed chromium doped zinc sulfide infrared transparent ceramics. Scripta Materialia, 2016, 125, 15-18.	2.6	28
14	Tape-casted transparent alumina ceramic wafers. Journal of Materials Research, 2014, 29, 2312-2317.	1.2	27
15	The roles of cation additives on the color center and optical properties of Yb:YAG transparent ceramic. Journal of the European Ceramic Society, 2018, 38, 1957-1965.	2.8	27
16	Low temperature self-densification of high strength bulk hexagonal boron nitride. Nature Communications, 2019, 10, 854.	5.8	26
17	Blue emission of Eu2+-doped translucent alumina. Journal of Luminescence, 2015, 168, 297-303.	1.5	25
18	Plastic mulch debris in rhizosphere: Interactions with soil-microbe-plant systems. Science of the Total Environment, 2022, 807, 151435.	3.9	25

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19	Three-dimensional Architecture Enabled by Strained Two-dimensional Material Heterojunction. Nano Letters, 2018, 18, 1819-1825.	4.5	24
20	Fabrication and spectroscopic properties of Yb/Er:YAG and Yb, Er:YAG transparent ceramics by co-precipitation synthesis route. Journal of Luminescence, 2017, 188, 533-540.	1.5	23
21	Solution-Based, Template-Assisted Realization of Large-Scale Graphitic ZnO. ACS Nano, 2018, 12, 7554-7561.	7.3	23
22	Current status of solid-state single crystal growth. BMC Materials, 2020, 2, .	6.8	23
23	Synthesis of Yb3+ doped Sr5(PO4)3F nanoparticles through co-precipitation. Materials Letters, 2013, 107, 68-70.	1.3	22
24	Highâ€entropy transparent ceramics: Review of potential candidates and recently studied cases. International Journal of Applied Ceramic Technology, 2022, 19, 644-672.	1.1	20
25	Rapid Pressureless Sintering of Glasses. Small, 2022, 18, e2107951.	5.2	20
26	Green phosphorescence of zinc sulfide optical ceramics. Optical Materials Express, 2014, 4, 1140.	1.6	19
27	Fabrication and properties of transparent Ndâ€doped BaF 2 ceramics. Journal of the American Ceramic Society, 2019, 102, 178-184.	1.9	19
28	Transparent <scp><scp>Y</scp></scp>₃<scp><scp>Al</scp></scp>₅<scp><scp>O</scp></scp>₁₂:<scp><scp>Li</scp></scp>,<scp><scp>Ce</scp></scp> Ceramics for Thermal Neutron Detection. Journal of the American Ceramic Society, 2013, 96, 1067-1069.	1.9	18
29	MgAl2O4â€“LaCr0.5Mn0.5O3 composite ceramics for high temperature NTC thermistors. Journal of Materials Science: Materials in Electronics, 2013, 24, 4452-4456.	1.1	16
30	Influence of temperature on the spark plasma sintering of calcium fluoride ceramics. Journal of Materials Research, 2014, 29, 2297-2302.	1.2	16
31	Synthesis and Thermoelectric Properties of Yb-doped Ca0.9â^'x Yb x La0.1MnO3 Ceramics. Journal of Electronic Materials, 2014, 43, 4048-4055.	1.0	16
32	Alloying effect on brightâ€“dark exciton states in ternary monolayer Mo_xW_{1â€“x}Se₂. New Journal of Physics, 2017, 19, 073018.	1.2	16
33	Novel transparent MgGa2O4 and Ni2+-doped MgGa2O4 ceramics. Journal of Advanced Ceramics, 2022, 11, 470-481.	8.9	16
34	Ultraviolet emission transparent Gd:YAG ceramics processed by solidâ€state reaction spark plasma sintering. Journal of the American Ceramic Society, 2020, 103, 839-848.	1.9	15
35	High concentration Ce3+ doped BaF2 transparent ceramics. Journal of Alloys and Compounds, 2020, 817, 153075.	2.8	14
36	Microstructure development and optical properties of Fe:ZnSe transparent ceramics sintered by spark plasma sintering. Journal of the American Ceramic Society, 2020, 103, 4159-4166.	1.9	14

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37	Hot-pressed ceramic Fe:ZnSe gain-switched laser. Optical Materials Express, 2020, 10, 3417.	1.6	14
38	Assessment of conversion efficiency of Cr⁴⁺ ions by aliovalent cation additives in Cr:<scp>YAG</scp> ceramic for edge cladding. Journal of the American Ceramic Society, 2018, 101, 5098-5109.	1.9	13
39	Investigation of the structure, optical properties and Cr4+ conversion level of Yb3+ and Cr3+ codoped YAG transparent ceramics. Optical Materials, 2020, 109, 110406.	1.7	13
40	Dissolved organic carbon drives nutrient cycling via microbial community in paddy soil. Chemosphere, 2021, 285, 131472.	4.2	13
41	Fabrication and microstructure development of Yb:YAG transparent ceramics from coâ€precipitated powders without additives. Journal of the American Ceramic Society, 2019, 102, 7154-7167.	1.9	12
42	Synthesis of Fe:ZnSe nanopowders via the coâ€precipitation method for processing transparent ceramics. Journal of the American Ceramic Society, 2019, 102, 7089-7097.	1.9	11
43	Dissolved organic matter (DOM) was detected in MSWI plant: An investigation of DOM and potential toxic elements variation in the bottom ash and fly ash. Science of the Total Environment, 2022, 828, 154339.	3.9	11
44	Fabrication, photoluminescence and terahertz absorption properties of Yb:YAG transparent ceramics with various Yb dopant concentrations. Optical Materials, 2018, 85, 106-112.	1.7	10
45	Synthesis and characterization of calcium lanthanum sulfide via a wet chemistry route followed by thermal decomposition. RSC Advances, 2016, 6, 34935-34939.	1.7	9
46	Ecological circular agriculture: A case study evaluating biogas slurry applied to rice in two soils. Chemosphere, 2022, 301, 134628.	4.2	9
47	YTTRIUM ALUMINATE CERAMIC FIBERS VIA PRE-CERAMIC POLYMER AND SOL-GEL ROUTES. Particulate Science and Technology, 1992, 10, 121-132.	1.1	8
48	Controllable Edge Epitaxy of Helical GeSe/GeS Heterostructures. Nano Letters, 2022, 22, 5086-5093.	4.5	8
49	Blueshift in near-band-edge emission in Y^3+-doped CuAlO_2 nanofibers. Optical Materials Express, 2014, 4, 2602.	1.6	7
50	Synthesis of YCrO3 ceramics through a field-assisted sintering technique. Journal of Materials Science: Materials in Electronics, 2014, 25, 1400-1403.	1.1	6
51	Tunable valleytronics with symmetry-retaining high polarization degree in SnSxSe1â^'x model system. Applied Physics Letters, 2020, 116, 061105.	1.5	6
52	Fabrication, microstructure and optical properties of Ce:SrF2 transparent ceramics. Optical Materials, 2020, 105, 109898.	1.7	6
53	Luminescence and Microstructure of <scp><scp>Nd</scp></scp> Doped <scp><scp>Y</scp></scp>₂<scp><scp>Si</scp></scp>₂<scp><scp>O</scp></scp>₇ Electrospun Fibers. Journal of the American Ceramic Society, 2014, 97, 2390-2393.	1.7	5
54	Electrohydrodynamic Processing of p-Type Transparent Conducting Oxides. Journal of Nanomaterials, 2015, 2015, 1-14.	1.5	5

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55	Lowâ€temperature crystal growth of Yb:Sr 5 F(PO 4) 3 without evident thermal runaway. Journal of the American Ceramic Society, 2017, 100, 2402-2406.	1.9	5
56	Chemically Modulating the Twist Rate of Helical van der Waals Crystals. Chemistry of Materials, 2020, 32, 299-307.	3.2	5
57	Solution-Based Synthesis of Layered Two-Dimensional Oxides as Broadband Emitters. ACS Nano, 2020, 14, 15544-15551.	7.3	5
58	Electric Fieldâ€Enhanced Solidâ€State Conversion of Ceramic Sr₅(PO₄)₃F to Crystals. Journal of the American Ceramic Society, 2016, 99, 3561-3568.	1.9	4
59	Ammonium citrate-assisted combustion synthesis and photoluminescence properties of Dy:YAG nanophosphors. Journal of Sol-Gel Science and Technology, 2016, 79, 606-615.	1.1	4
60	Sintering behavior of calcium lanthanum sulfide ceramics in fieldâ€assisted consolidation. Journal of the American Ceramic Society, 2017, 100, 5011-5019.	1.9	4
61	Valenceâ€induced effects on the electrical properties of NiMn₂O₄ ceramics with different Ni sources. Journal of the American Ceramic Society, 2021, 104, 5148-5156.	1.9	4
62	Topotactic Growth of Free-Standing Two-Dimensional Perovskite Niobates with Low Symmetry Phase. Nano Letters, 2021, 21, 4700-4707.	4.5	4
63	Solid-state single-crystal growth of YAG and Nd: YAG by spark plasma sintering. Journal of Materials Science and Technology, 2022, 106, 118-127.	5.6	4
64	Three-dimensional visualization of carbon networks in nanocomposites. Nanotechnology, 2015, 26, 442501.	1.3	3
65	Electrical properties and aging mechanism of Y2O3â€“MCr0.5Mn0.5O3 (MÂ=ÂSm, Gd) composite NTC ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 4221-4225.	1.1	3
66	Growth and Properties of Dislocated Two-dimensional Layered Materials. MRS Advances, 2020, 5, 3437-3452.	0.5	3
67	Effect of Cu Co-doping on the magnetism of Zn0.95Co0.05O films. Journal of Shanghai Jiaotong University (Science), 2012, 17, 738-742.	0.5	1
68	Environmental Electron Microscopy: Electron Beam Effects in Electrochemistry. Microscopy and Microanalysis, 2014, 20, 1616-1617.	0.2	1
69	Influence of inversion level on the optical absorption spectra of Tiâ€doped transparent MgGa₂O₄ ceramics. Journal of the American Ceramic Society, 2022, 105, 5944-5955.	1.9	1
70	Room temperature hot-pressed Fe:ZnSe ceramic laser. , 2021, , .		0
71	Gain switched hot-pressed Fe:ZnSe ceramic laser. , 2020, , .		0