Wen Lei

List of Publications by Year
in descending order

110 papers	4,239 citations	109137 35 h-index	128067 60 g-index
110 all docs	110 docs citations	110 times ranked	4179 citing authors

#	Article	IF	Citations
1	Recent Advances of Structurally Ordered Intermetallic Nanoparticles for Electrocatalysis. ACS Catalysis, 2018, 8, 3237-3256.	5.5	245
2	Porous Structured Niâ€"Feâ€"P Nanocubes Derived from a Prussian Blue Analogue as an Electrocatalyst for Efficient Overall Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 26134-26142.	4.0	220
3	Photophysics in Cs₃Cu₂X₅ (X = Cl, Br, or I): Highly Luminescent Self-Trapped Excitons from Local Structure Symmetrization. Chemistry of Materials, 2020, 32, 3462-3468.	3.2	177
4	Two-Dimensional Phosphorus-Doped Carbon Nanosheets with Tunable Porosity for Oxygen Reactions in Zinc-Air Batteries. ACS Catalysis, 2018, 8, 2464-2472.	5.5	175
5	High-Figure-of-Merit Thermoelectric La-Doped A-Site-Deficient SrTiO₃ Ceramics. Chemistry of Materials, 2016, 28, 925-935.	3.2	172
6	3D Porous Carbon Sheets with Multidirectional Ion Pathways for Fast and Durable Lithiumâ€"Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1702381.	10.2	165
7	Microwave dielectric properties of ZnAl2O4â€"TiO2 spinel-based composites. Materials Letters, 2007, 61, 4066-4069.	1.3	128
8	Low-fired fluoride microwave dielectric ceramics with low dielectric loss. Ceramics International, 2019, 45, 279-286.	2.3	121
9	Controllable synthesis of molybdenum-based electrocatalysts for a hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 4879-4885.	5.2	110
10	Sea urchin-like Niâ€"Fe sulfide architectures as efficient electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 12350-12357.	5.2	109
11	MoS₂â€"MoP heterostructured nanosheets on polymer-derived carbon as an electrocatalyst for hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 616-622.	5.2	104
12	Sintering behaviour and microwave dielectric properties of BaAl2â^'2(ZnSi) Si2O8 ceramics. Journal of the European Ceramic Society, 2018, 38, 1529-1534.	2.8	103
13	Phase Evolution and Microwave Dielectric Properties of (1â^'<i>x</i>)ZnAl₂O₄â^'<i>x</i>Mg₂TiO₄ Ceramics. Journal of the American Ceramic Society, 2009, 92, 105-109.	1.9	85
14	Restricting Growth of Ni₃Fe Nanoparticles on Heteroatom-Doped Carbon Nanotube/Graphene Nanosheets as Air-Electrode Electrocatalyst for Znâ€"Air Battery. ACS Applied Materials & Interfaces, 2018, 10, 38093-38100.	4.0	74
15	Controllable Ï„_f value of barium silicate microwave dielectric ceramics with different Ba/Si ratios. Journal of the American Ceramic Society, 2018, 101, 25-30.	1.9	69
16	Modification of ZnAl₂O₄â€Based Lowâ€Permittivity Microwave Dielectric Ceramics by Adding 2MOâ€"TiO₂ (M=Co, Mg, and Mn). Journal of the American Ceramic Society, 2008, 91, 1958-1961.	1.9	65
17	Transparent polycrystalline MgAl2O4 ceramic fabricated by spark plasma sintering: Microwave dielectric and optical properties. Ceramics International, 2013, 39, 2481-2487.	2.3	57
18	Superior energy-storage performance in 0.85Bi_{0.5}Na_{0.5}TiO₃â€"0.15NaNbO₃ lead-free ferroelectric ceramics <i>via</i> composition and microstructure engineering. Journal of Materials Chemistry A, 2021, 9, 10088-10094.	5.2	57

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19	Phase evolution and near-zero shrinkage in BaAl2Si2O8 low-permittivity microwave dielectric ceramics. Materials Research Bulletin, 2014, 50, 235-239.	2.7	56
20	Structure and Microwave Dielectric Behavior of Aâ€Siteâ€Doped Sr_(1âˆ’1.5<i>x</i>)Ce_{<i>x</i>}TiO₃ Ceramics System. Journal of the American Ceramic Society, 2016, 99, 3286-3292.	1.9	54
21	Weak ferroelectricity and low-permittivity microwave dielectric properties of Ba 2 Zn (1+x) Si 2 O (7+x) ceramics. Journal of the European Ceramic Society, 2017, 37, 3065-3071.	2.8	51
22	Microwave dielectric properties of Li2TiO3 ceramics sintered at low temperatures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 99-102.	1.7	49
23	Temperature compensating ZnAl2O4â€"Co2TiO4 spinel-based low-permittivity microwave dielectric ceramics. Ceramics International, 2012, 38, 99-103.	2.3	49
24	Phase Composition and Microwave Dielectric Properties of ZnAl2O4-Co2TiO4 Low-Permittivity Ceramics with High Quality Factor. Journal of the American Ceramic Society, 2011, 94, 20-23.	1.9	46
25	Nitrogenâ€Doped Hierarchical Porous Carbons Derived from Sodium Alginate as Efficient Oxygen Reduction Reaction Electrocatalysts. ChemCatChem, 2017, 9, 809-815.	1.8	45
26	Improved heat transfer for pyroelectric energy harvesting applications using a thermal conductive network of aluminum nitride in PMNâ€"PMSâ€"PZT ceramics. Journal of Materials Chemistry A, 2018, 6, 5040-5051.	5.2	45
27	Lattice structure analysis and optimised microwave dielectric properties of LiAl1-(Zn0.5Si0.5) O2 solid solutions. Journal of the European Ceramic Society, 2019, 39, 2360-2364.	2.8	45
28	Optimised phase compositions and improved microwave dielectric properties based on calcium tin silicates. Journal of the European Ceramic Society, 2019, 39, 340-345.	2.8	45
29	Novel high Curie temperature Ba2ZnSi2O7 ferroelectrics with low-permittivity microwave dielectric properties. Ceramics International, 2016, 42, 16387-16391.	2.3	44
30	Crystal structure, phase composition and microwave dielectric properties of Ca3MSi2O9 ceramics. Journal of Alloys and Compounds, 2018, 750, 996-1002.	2.8	41
31	Tuning the electrocatalytic activity of Pt by structurally ordered PdFe/C for the hydrogen oxidation reaction in alkaline media. Journal of Materials Chemistry A, 2018, 6, 11346-11352.	5.2	41
32	Phase transition and low-temperature sintering of Zn(Mn1-Al)2O4 ceramics for LTCC applications. Ceramics International, 2016, 42, 17731-17735.	2.3	40
33	Synthesis, lattice energy and microwave dielectric properties of BaCu2-Co Si2O7 ceramics. Journal of the European Ceramic Society, 2020, 40, 3035-3041.	2.8	40
34	Cation and Anion Co-doped Perovskite Nanofibers for Highly Efficient Electrocatalytic Oxygen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 41259-41268.	4.0	39
35	Highly Nitrogen-Doped Three-Dimensional Carbon Fibers Network with Superior Sodium Storage Capacity. ACS Applied Materials & Interfaces, 2017, 9, 28604-28611.	4.0	38
36	Improved sinterability and microwave dielectric properties of [Zn_{0.5}Ti_{0.5}]³⁺â€doped ZnAl₂O₄ spinel solid solution. Journal of the American Ceramic Society, 2019, 102, 5952-5957.	1.9	37

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37	Temperature-stable BaAl2Si2O8â€“Ba5Si8O21-based low-permittivity microwave dielectric ceramics for LTCC applications. Ceramics International, 2017, 43, 14453-14456.	2.3	35
38	Preparation of ZnAl2O4-based microwave dielectric ceramics and GPS antenna by aqueous gelcasting. Materials Research Bulletin, 2011, 46, 1485-1489.	2.7	33
39	Ultraâ€low fired fluoride composite microwave dielectric ceramics and their application for BaCuSi₂O₆â€based LTCC. Journal of the American Ceramic Society, 2020, 103, 1140-1148.	1.9	33
40	Effects of Bi2O3 addition on the microstructures and microwave dielectric characteristics of Ba6â^'3x(Sm0.2Nd0.8)8+2xTi18O54(x= 2 / 3) ceramics. Materials Letters, 2006, 60, 459-463.	1.3	32
41	ZnAl2O4â€“TiO2â€“SrAl2Si2O8 low-permittivity microwave dielectric ceramics. Ceramics International, 2013, 39, 1707-1710.	2.3	32
42	Correlation between crystal structure and dielectric characteristics of Ti4+ substituted CaSnSiO5 ceramics. Journal of the European Ceramic Society, 2021, 41, 2568-2578.	2.8	32
43	Phase-microstructure evolution and microwave dielectric characteristic of (1â^' x)(Sr 0.5 Ce 0.5)TiO 3+Î´ â^' x NdAlO 3 solid solution. Journal of the European Ceramic Society, 2017, 37, 3051-3057.	2.8	31
44	Crystal structure, defect chemistry and radio frequency relaxor characteristics of Ce-Doped SrTiO3 perovskite. Journal of Alloys and Compounds, 2017, 728, 623-630.	2.8	31
45	Phase compositions and microwave dielectric properties of Sn-deficient Ca2SnO4 ceramics. Journal of Alloys and Compounds, 2019, 802, 488-492.	2.8	30
46	Effects of heating rate on microstructures and microwave dielectric properties of (1â^'x)ZnAl2O4â€“xTiO2 (x=0.21) ceramics. Ceramics International, 2009, 35, 277-280.	2.3	29
47	Effects of aqueous gelcasting and dry pressing on the sinterability and microwave dielectric properties of ZnAl2O4-based ceramics. Ceramics International, 2011, 37, 481-486.	2.3	29
48	Various Structured Molybdenum-based Nanomaterials as Advanced Anode Materials for Lithium ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 12366-12372.	4.0	29
49	Crystal structure, phase compositions, and microwave dielectric properties of malayaiteâ€type Ca_{1â^'}<i>_x</i>Sr<i>_x</i>SnSiO₅ ceramics. Journal of the American Ceramic Society, 2020, 103, 6369-6377.	1.9	29
50	Synthesis, crystal structure and microwave dielectric properties of self-temperature stable Ba1-Sr CuSi2O6 ceramics for millimeter-wave communication. Journal of Materiomics, 2019, 5, 606-617.	2.8	28
51	Study on structure, microstructure and microwave dielectric characteristics of CaV₂O₆ and (Ca_{0.95}M_{0.05})V₂O₆ (M=Zn, Ba) ceramics. Journal of the American Ceramic Society, 2019, 102, 5213-5222.	1.9	27
52	Improving the breakdown strength of (Mg0.9Zn0.1)2(Ti1â^'xMnx)O4 ceramics with low dielectric loss. Ceramics International, 2015, 41, 521-525.	2.3	26
53	Design of Ku-Band Flat Luneburg Lens Using Ceramic 3-D Printing. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 234-238.	2.4	26
54	Dielectric and ferroelectric behavior of an incipient ferroelectric Sr_(1â^'3x/2)Ce_xTiO₃ novel solid solution. RSC Advances, 2016, 6, 91679-91688.	1.7	25

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55	Improving microwave dielectric properties of temperature - compensated Mg(1.04â€“1.5y)CeyTiO3 - based Ceramics with high quality factor. Ceramics International, 2017, 43, 3051-3056.	2.3	24
56	Synthesis strategy, phase-chemical structure and microwave dielectric properties of paraelectric Sr(1âˆ’3/2)Ce TiO3 ceramics. Journal of Alloys and Compounds, 2017, 695, 648-655.	2.8	24
57	Improved flexural strength and dielectric loss in Al2O3-based LTCC with La2O3â€“CaOâ€“B2O3â€“SiO2 glass. Ceramics International, 2021, 47, 9955-9960.	2.3	22
58	Phase transition, infrared spectra, and microwave dielectric properties of temperature-stable CaSnSi1-Ge O5 ceramics. Ceramics International, 2021, 47, 24781-24792.	2.3	22
59	Structure and synergy performance of (1-x)Sr0.25Ce0.5TiO3 -xLa(Mg0.5Ti0.5)O3 based microwave dielectric ceramics for 5G architecture. Journal of Alloys and Compounds, 2018, 763, 990-996.	2.8	21
60	Improved microwave dielectric properties of novel low-permittivity Sn-doped Ca2HfSi4O12 ceramics. Materials Research Bulletin, 2020, 129, 110887.	2.7	20
61	Nearâ€Zero Thermal Expansion Ba_{1âˆ’}<i>_x</i>Sr<i>_x</i>Zn₂Si₂O₇â€Based Microwave Dielectric Ceramics for 3D Printed Dielectric Resonator Antenna with Integrative Lens. Advanced Materials Interfaces, 2021, 8, 2100584.	1.9	20
62	Novel low-Îµr and lightweight LiBO2 microwave dielectric ceramics with good chemical compatibility with silver. Journal of the European Ceramic Society, 2022, 42, 4580-4586.	2.8	19
63	Calcining Temperature Dependence of Microwave Dielectric Properties of (1-x)ZnAl2O4â€“xTiO2(x=0.21) Ceramics. Japanese Journal of Applied Physics, 2007, 46, L724-L726.	0.8	18
64	Novel ZnAl₂O₄-Based Microwave Dielectric Ceramics with Machinable Property and its Application for GPS Antenna. Ferroelectrics, 2009, 388, 80-87.	0.3	18
65	Phase compositions and reaction models of zinc manganese oxides with different Zn/Mn ratios. Journal of Alloys and Compounds, 2016, 661, 196-200.	2.8	18
66	Impedance spectroscopy, B-site cation ordering and structureâ€“property relations of (1 âˆ’ x) La[Al0.9(Mg0.5Ti0.5)0.1]O3â€“x CaTiO3 ceramics for 5G dielectric waveguide filters. Ceramics International, 2021, 47, 15319-15327.	2.3	16
67	Crystal structures and microwave dielectric properties of novel low-permittivity Ba1-Sr ZnSi3O8 ceramics. Materials Research Bulletin, 2019, 112, 178-181.	2.7	15
68	Crystal structure, lattice energy and microwave dielectric properties of melilite-type Ba1-Sr Cu2Si2O7 solid solutions. Journal of Alloys and Compounds, 2020, 835, 155340.	2.8	15
69	Fabrication of high-performance MgTiO3â€“CaTiO3 microwave ceramics through a stereolithography-based 3D printing. Ceramics International, 2020, 46, 16979-16986.	2.3	15
70	Phase evolution, crystal structure, and microwave dielectric properties of gillespiteâ€type ceramics. Journal of the American Ceramic Society, 2021, 104, 1740-1749.	1.9	15
71	Microwave dielectric characteristics of Nb2O5-added 0.9Al2O3â€“0.1TiO2 ceramics. Ceramics International, 2009, 35, 2131-2134.	2.3	14
72	Synthesis of (1âˆ’x)ZnAl2O4â€“xTiO2 microwave dielectric ceramics by molten-salt process. Journal of Alloys and Compounds, 2010, 508, 507-511.	2.8	14

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73	Novel zinc manganese oxide-based microwave dielectric ceramics for LTCC applications. Ceramics International, 2015, 41, 9152-9156.	2.3	14
74	Low-temperature sintering and microwave dielectric properties of CaSn SiO(3+2)-based positive Ï„f compensator. Ceramics International, 2018, 44, 18209-18212.	2.3	14
75	Anti-reductive characteristics and dielectric loss mechanisms of Ba2ZnSi2O7 microwave dielectric ceramic. Ceramics International, 2019, 45, 19415-19419.	2.3	14
76	Crystal structures, dielectric properties and ferroelectricity in stuffed tridymite-type BaAl(2â^{ˆ'}2x)(Zn0.5Si0.5)2xO4 solid solutions. Dalton Transactions, 2019, 48, 3625-3634.	1.6	14
77	Optical and Microwave Dielectric Properties of <scp>Z</scp>nâ€Doped <scp>M</scp>g<scp>A</scp>l₂<scp>O</scp>₄ Transparent Ceramics Fabricated by Spark Plasma Sintering. International Journal of Applied Ceramic Technology, 2015, 12, 116-123.	1.1	13
78	Sintering behaviour, lattice energy and microwave dielectric properties of melilite-type BaCo₂Si₂O₇ ceramics. Materials Research Express, 2019, 6, 126322.	0.8	13
79	Correlation between crystal structure and microwave dielectric properties of CaRE4Si3O13 (REâ€‰=â€‰La,) Tj ETQq1 1 0.784314 rgB	1.1	13
80	Lattice structure and microwave dielectric properties of La[Al 1âˆ' x (Mg 0.5 Ti 0.5) x]O 3 (x Â=Â0â€0.2)â€based ceramics. Journal of the American Ceramic Society, 2020, 103, 3231-3237.	1.9	13
81	Crystal Structure and Ferroelectric Evidence of BaZnSi₃O₈, aâ€‰Lowâ€Permittivity Microwave Dielectric Ceramic. Chemistry - A European Journal, 2021, 27, 5992-5998.	1.7	13
82	Microwave dielectric properties of the (1âˆ'x)Mg2TiO4â€"xCaTiO3â€"y wt.% ZnNb2O6 ceramics system. Ceramics International, 2011, 37, 1515-1519.	2.3	12
83	<scp><scp>Ba</scp></scp>_{0.6}<scp><scp>Sr</scp></scp>_{0.4}<scp><scp>TiO</scp></scp>₃â€" Ceramic Powders with Uniform Microstructures Prepared by Aqueous Gelcastingâ€Assisted Solidâ€State Method. Journal of the American Ceramic Society, 2012, 95, 1960-1964.	1.9	12
84	A new route to improve microwave dielectric properties of low-temperature sintered Li2TiO3-based ceramics. Journal of Materials Science: Materials in Electronics, 2013, 24, 3625-3628.	1.1	12
85	Effects of BaCu(B2O5) additives on the crystal structures and dielectric properties of CaMgGeO4 ceramics for LTCC applications. CrystEngComm, 2020, 22, 4768-4777.	1.3	12
86	Phase evolution and microwave dielectric properties of novel LiAl_{5âˆ'}<i>_x</i>Zn<i>_x</i>O_{8âˆ'0.5}<i>_x</i>â€based (0Ââ‰Â<i>x</i>Ââ‰Â0.5) ceramics. Journal of the American Ceramic Society, 2020, 103, 1105-1112.	1.9	11
87	Perovskite structure and low frequency relaxor- like- dielectric response of (Sr,Ce)TiO3 solid solution. Ceramics International, 2017, 43, 16376-16383.	2.3	10
88	Crystal structure and microwave dielectric properties of garnet-type Ca2YZr2-Ti Al3O12 ceramics for dual-band bandpass filters. Journal of the European Ceramic Society, 2022, 42, 4962-4968.	2.8	10
89	The effects of dispersants on sinterability and microwave dielectric properties of Zr0.8Sn0.2TiO4 ceramics. Ceramics International, 2018, 44, 14990-14994.	2.3	9
90	Optimized sintering behavior and microwave dielectric properties of Ca₁₊₂<i>_x</i>SnSi₂<i>_x</i>₊<i>_y</i>O₃₊₆ by composition modulation. Journal of the American Ceramic Society, 2021, 104, 974-984.	1.9	9

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91	Effects of SrTiO3 additives on the structure and microwave dielectric properties of Ba4.2Sm9.2Ti18O54 ceramics. Ceramics International, 2009, 35, 855-860.	2.3	8
92	Microstructures and dielectric properties of Ba[(Co0.7Zn0.3)1/3Nb2/3]O3-based ceramics prepared by aqueous gelcasting-assisted solid-state method. Journal of Materials Science: Materials in Electronics, 2013, 24, 2672-2677.	1.1	8
93	An evaluation of the impact of crystal symmetry on microwave dielectric properties of Sr1-2xNd2xTi1-xMgxO3 solid solution. Ceramics International, 2019, 45, 18529-18535.	2.3	8
94	A novel lowâ€permittivity LiAl_{0.98}(Zn_{0.5}Si_{0.5})_{0.02}O₂â€based microwave dielectric ceramics for LTCC application. International Journal of Applied Ceramic Technology, 2020, 17, 745-750.	1.1	8
95	Lattice vibrational characteristics, crystal structure, and dielectric properties of single-phase Sr(Mg1/2Mo1/2)O3 microwave dielectric ceramic. Journal of Materials Science: Materials in Electronics, 2021, 32, 17191-17199.	1.1	7
96	Phase transition and permittivity stability against temperature of CaSn1-Ti GeO5 ceramics. Journal of the European Ceramic Society, 2022, 42, 147-153.	2.8	7
97	Crystal structure, far-infrared spectra, and microwave dielectric properties of bazirite-type BaZr(Si1-Ge)3O9 ceramics. Ceramics International, 2022, 48, 3592-3599.	2.3	7
98	The relationship between crystal structure and modified microwave dielectric properties of Ca 3 SnSi 2â€x Ge x O 9 ceramics. Journal of the American Ceramic Society, 2022, 105, 1253.	1.9	7
99	Impedance spectroscopy and dielectric properties of BaAl(2â^'2)(Zn0.5Ti0.5)2O4 ceramics. Ceramics International, 2020, 46, 1830-1835.	2.3	6
100	Stereolithographic additive manufacturing of Luneburg lens using Al2O3-based low sintering temperature ceramics for 5G MIMO antenna. Additive Manufacturing, 2021, 47, 102244.	1.7	6
101	Ultrabroad temperature stability of stuffed tridymite-type BaAl2O4 co-doped by [Zn0.5Ti0.5]3+ with weak ferroelectricity. Ceramics International, 2019, 45, 22493-22497.	2.3	5
102	Structure instability and high microwave dielectric permittivity of nonstoichiometric (Sr0.4Ce0.4)1-xNdxTi0.8Mg0.2O3 system for wireless communication. Journal of Materiomics, 2021, 7, 25-33.	2.8	5
103	Phase compositions and microwave dielectric properties of nominal Al2â^'xYxMo3O12 ceramics. Journal of Materials Science: Materials in Electronics, 2021, 32, 10855-10865.	1.1	5
104	Effects of CaTiO₃ on Microstructures and Properties of (1-x)ZnAl₂O₄-xMg₂TiO₄(<I>x& Microwave Dielectric Ceramics. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2009, 24, 957-961.	0.6	5
105	Crystal structure and temperature dependence of permittivity in barium aluminate based solid solutions. Journal of the American Ceramic Society, 2019, 102, 7480-7490.	1.9	4
106	Lattice structure and microwave dielectric properties of [Mg0.5Si0.5]3+-doped LiAlO2 solid solution. Journal of Materials Science: Materials in Electronics, 2019, 30, 11764-11770.	1.1	4
107	Temperatureâ€stable BaAl 2 Si 2 O 8 â€"CaSnSiO 5 microwave dielectric ceramics. International Journal of Applied Ceramic Technology, 0, , .	1.1	4
108	Phase transition and microwave dielectric properties of Al2-Sc Mo3O12 solid solutions. Journal of Alloys and Compounds, 2022, 910, 164940.	2.8	4

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109	Intrinsic dielectric properties and lattice vibrational characteristics of single phase BaTiO3 ceramic. Journal of Materials Science: Materials in Electronics, 2021, 32, 24041-24049.	1.1	3
110	Improved microwave dielectric properties of the (Sr1â^'3x/2Lax)2Ti1â^'yCeyO4 ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 13541-13548.	1.1	2