

Chang-An Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154
papers

4,133
citations

37
h-index

58
g-index

158
ext. papers

4,978
ext. citations

6.1
avg, IF

5.95
L-index

#	Paper	IF	Citations
154	Microwave dielectric properties of $(0.75\text{ZnAl}_2\text{O}_4 \cdot 0.25\text{TiO}_2)\text{MgTiO}_3$ ceramics prepared using digital light processing technology. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 4191-4199	3.8	0
153	Constructing the lithium polymeric salt interfacial phase in composite solid-state electrolytes for enhancing cycle performance of lithium metal batteries. <i>Chemical Engineering Journal</i> , 2022 , 442, 136154	14.7	1
152	Realizing highly reversible and deeply rechargeable Zn anode by porous zeolite layer. <i>Journal of Power Sources</i> , 2022 , 540, 231659	8.9	0
151	Strong metal-support interactions induced by an ultrafast laser. <i>Nature Communications</i> , 2021 , 12, 6665	17.4	11
150	Solvent-Free Process for Blended PVDF-HFP/PEO and LLZTO Composite Solid Electrolytes with Enhanced Mechanical and Electrochemical Properties for Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11802-11812	6.1	5
149	In Situ Electrode Stress Monitoring: An Effective Approach to Study the Electrochemical Behavior of a Lithium Metal Anode. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3993-4001	6.1	5
148	An integrated solvent-free modification and composite process of $\text{Li}_6.4\text{La}_3\text{Zr}_1.4\text{Ta}_0.6\text{O}_{12}$ /Poly(ethylene oxide) solid electrolytes: Enhanced compatibility and cycle performance. <i>Journal of Power Sources</i> , 2021 , 492, 229672	8.9	5
147	Seed assisted in-situ synthesis of porous anorthite/mullite whisker ceramics by foam-freeze casting. <i>Ceramics International</i> , 2021 , 47, 11193-11201	5.1	7
146	Hollow-grained Voronoi foam ceramics with high strength and thermal superinsulation up to 1400 °C. <i>Materials Today</i> , 2021 , 46, 35-43	21.8	6
145	Nanosecond Laser Cleaning Method to Reduce the Surface Inert Layer and Activate the Garnet Electrolyte for a Solid-State Li Metal Battery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37082-37090	8.5	4
144	Facile synthesis of multi-shelled $\text{MnO}_2/\text{Co}_3\text{O}_4$ hollow spheres with superior catalytic activity for CO oxidation. <i>Ceramics International</i> , 2021 , 47, 18411-18416	5.1	1
143	Li-ion conductivity and stability of hot-pressed LiTa_2PO_8 solid electrolyte for all-solid-state batteries. <i>Journal of Materials Science</i> , 2021 , 56, 2425-2434	4.3	4
142	Carbon-based flexible self-supporting cathode for lithium-sulfur batteries: Progress and perspective 2021 , 3, 271-302		20
141	The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 183001	3	63
140	Surface Coating on a Separator with a Reductive Solid Li-Ion Conductor for Dendrite-Free Li-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8621-8628	6.1	3
139	Near net shape fabrication of porous cordierite by combination of foam gel-casting and freeze-drying. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 2121	2	2
138	Highly elastic and low resistance deformable current collectors for safe and high-performance silicon and metallic lithium anodes. <i>Journal of Power Sources</i> , 2021 , 511, 230418	8.9	2

137	Excellent Li/Garnet Interface Wettability Achieved by Porous Hard Carbon Layer for Solid State Li Metal Battery. <i>Small</i> , 2021 , e2106142	11	0
136	Microstructure and properties of porous anorthite/mullite whiskers ceramics with high porosity. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 2104-2113	2	4
135	Correlation between the photocatalysis and growth mechanism of SnO ₂ nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 154005	3	4
134	Blending Poly(ethylene oxide) and Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ by Haake Rheomixer without any solvent: A low-cost manufacture method for mass production of composite polymer electrolyte. <i>Journal of Power Sources</i> , 2020 , 451, 227797	8.9	12
133	Preparation of YSZ porous ceramics with precise porosity control. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 974-979	2	3
132	Dual interface layers for solid-state Li metal battery with low interfacial resistance and small polarization based on garnet electrolyte. <i>Electrochimica Acta</i> , 2020 , 330, 135352	6.7	15
131	Submicronic spherical inclusion black pigment by double-shell reaction sintering. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1520-1526	3.8	3
130	Molten Lithium-Brass/Zinc Chloride System as High-Performance and Low-Cost Battery. <i>Matter</i> , 2020 , 3, 1714-1724	12.7	9
129	Preparation of near net size porous alumina-calcium aluminate ceramics by gelcasting-pore-forming agent processs. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4602-4610	3.8	4
128	Enhanced Performance of LiLaZrTaO Solid Electrolyte by the Regulation of Grain and Grain Boundary Phases. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56118-56125	9.5	16
127	Microstructure and mechanical properties of high entropy CrMnFeCoNi alloy processed by electropulsing-assisted ultrasonic surface rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 795, 140004	5.3	12
126	Near net size sintering of porous cordierite ceramics with excellent properties. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154121	5.7	9
125	A high-performance potassium metal battery using safe ionic liquid electrolyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27847-27853	11.5	20
124	Flower-like Hollow MoSe Nanospheres as Efficient Earth-Abundant Electrocatalysts for Nitrogen Reduction Reaction under Ambient Conditions. <i>Inorganic Chemistry</i> , 2020 , 59, 12941-12946	5.1	15
123	High-Energy-Density Solid-Electrolyte-Based Liquid Li-S and Li-Se Batteries. <i>Joule</i> , 2020 , 4, 262-274	27.8	62
122	In-situ synthesis and properties of porous cordierite ceramics with adjustable pore structure. <i>Ceramics International</i> , 2020 , 46, 14808-14815	5.1	8
121	A dopamine modified Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ /PEO solid-state electrolyte: enhanced thermal and electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16425-16436	13	82
120	Enhanced mechanical strength and ionic conductivity of LLZO solid electrolytes by oscillatory pressure sintering. <i>Ceramics International</i> , 2019 , 45, 18115-18118	5.1	22

119	High Li ⁺ -conductive perovskite Li ₃ /8Sr ₇ /16Ta ₃ /4Zr ₁ /4O ₃ electrolyte prepared by hot-pressing for all-solid-state Li-ion batteries. <i>Solid State Ionics</i> , 2019 , 338, 1-4	3.3	8
118	The rational design of sandwich-like MnO-Pd-CeO hollow spheres with enhanced activity and stability for CO oxidation. <i>Nanoscale</i> , 2019 , 11, 6776-6783	7.7	10
117	Preparation and characterization of monodispersed spherical Fe ₂ O ₃ @SiO ₂ reddish pigments with core-shell structure. <i>Journal of Advanced Ceramics</i> , 2019 , 8, 39-46	10.7	15
116	Defocused laser ablation process—a high-efficiency way to fabricate MoO ₃ /Mo integrative anode with excellent electrochemical performance for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 295-300	5.7	4
115	A monocrystal Fe ₃ O ₄ @ultrathin N-doped carbon core/shell structure: from magnetotactic bacteria to Li storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20899-20904	13	4
114	Binder-free carbon-coated nanocotton transition metal oxides integrated anodes by laser surface ablation for lithium-ion batteries. <i>Surface and Interface Analysis</i> , 2019 , 51, 874-881	1.5	4
113	SrTiO ₃ /TiO ₂ heterostructure nanowires with enhanced electron-hole separation for efficient photocatalytic activity. <i>Frontiers of Materials Science</i> , 2019 , 13, 342-351	2.5	4
112	Effect of alumina fiber content on pore structure and properties of porous ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 814-819	2	0
111	Brownian-snowball-mechanism-induced hierarchical cobalt sulfide for supercapacitors. <i>Journal of Power Sources</i> , 2019 , 412, 321-330	8.9	20
110	Synthesis and chromatic properties of zircon encapsulated ceramic black pigment with carbon sphere as carbon source. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2218-2227	6	13
109	Enhanced anti-deliquescent property and ultralow thermal conductivity of magnetoplumbite-type LnMeAl ₁₁ O ₁₉ materials for thermal barrier coating. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1095-1104	3.8	9
108	A new binder-free and conductive-additive-free TiO ₂ /WO ₃ -W integrative anode material produced by laser ablation. <i>Journal of Power Sources</i> , 2018 , 378, 362-368	8.9	9
107	Designing pinecone-like and hierarchical manganese cobalt sulfides for advanced supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12782-12793	13	58
106	MoS ₂ /CoS ₂ composites composed of CoS ₂ octahedrons and MoS ₂ nano-flowers for supercapacitor electrode materials. <i>Frontiers of Materials Science</i> , 2018 , 12, 354-360	2.5	8
105	An intermediate temperature garnet-type solid electrolyte-based molten lithium battery for grid energy storage. <i>Nature Energy</i> , 2018 , 3, 732-738	62.3	126
104	Formation of molybdenum-cobalt sulfide by one-step hydrothermal reaction for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 13703-13708	2.1	8
103	A soft non-porous separator and its effectiveness in stabilizing Li metal anodes cycling at 10 mA cm ⁻² observed in situ in a capillary cell. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4300-4307	13	58
102	Carbon encapsulated Fe ₃ O ₄ nanospheres with high electrochemical performance as anode materials for Li-ion battery. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 938-947	2	5

101	Au/CeO ₂ hollow nanospheres with enhanced catalytic activity for CO oxidation. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 908-914	2	2
100	Design and Synthesis of Rattle-type Au@MnO ₂ Hollow Nanospheres as Catalysts for CO Oxidation. <i>Chemistry Letters</i> , 2017 , 46, 876-878	1.7	5
99	Influence of sintering additives on Li ⁺ conductivity and electrochemical property of perovskite-type Li ₃ /8Sr ₇ /16Hf ₁ /4Ta ₃ /4O ₃ . <i>Electrochimica Acta</i> , 2017 , 234, 1-6	6.7	17
98	Simple synthesis of a double-shell hollow structured MnO ₂ @TiO ₂ composite as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2017 , 7, 46263-46270	3.7	13
97	In situ preparation of a binder-free nano-cotton-like CuO@Cu integrated anode on a current collector by laser ablation oxidation for long cycle life Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19781-19789	13	24
96	Smart tuning of 3D ordered electrocatalysts for enhanced oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 640-644	21.8	23
95	Synthesis and growth of anorthite crystal during in situ preparation of porous anorthite ceramics by foam-gelcasting. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 957-962	2	12
94	Sintering behavior of garnet-type Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ in Li ₂ CO ₃ atmosphere and its electrochemical property. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 921-927	2	20
93	Porous acicular mullite ceramics fabricated with in situ formed soot oxidation catalyst obtained from waste MoSi ₂ . <i>Ceramics International</i> , 2017 , 43, 9815-9822	5.1	7
92	Li-Ion Conduction and Stability of Perovskite Li ₃ /8Sr ₇ /16Hf ₁ /4Ta ₃ /4O ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14552-7	9.5	69
91	A review of fabrication strategies and applications of porous ceramics prepared by freeze-casting method. <i>Ceramics International</i> , 2016 , 42, 2907-2925	5.1	126
90	Design and Preparation of MnO ₂ /CeO ₂ -MnO ₂ Double-Shelled Binary Oxide Hollow Spheres and Their Application in CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8670-7	9.5	114
89	Manganous-Manganic Oxide@Carbon Core-Shell Nanorods for Supercapacitors with High Cycle Retention. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, M5-M11	2	13
88	Nano-network MnO ₂ /polyaniline composites with enhanced electrochemical properties for supercapacitors. <i>Materials and Design</i> , 2016 , 97, 512-518	8.1	58
87	One-step synthesis of hierarchically porous hybrid TiO ₂ hollow spheres with high photocatalytic activity. <i>Frontiers of Materials Science</i> , 2016 , 10, 15-22	2.5	4
86	Mullite whisker reinforced porous anorthite ceramics with low thermal conductivity and high strength. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 761-765	6	52
85	Facile synthesis of well-defined CeO ₂ hollow spheres with a tunable pore structure. <i>Ceramics International</i> , 2016 , 42, 6088-6093	5.1	8
84	Control of pore size and wall thickness of 3-1 type porous PZT ceramics during freeze-casting process. <i>Materials and Design</i> , 2016 , 91, 242-247	8.1	37

83	Effect of two-step sintering on micro-honeycomb BaTiO ₃ ceramics prepared by freeze-casting process. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2647-2652	6	27
82	Facile synthesis and characterization of MnO ₂ nanomaterials as supercapacitor electrode materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5533-5542	2.1	10
81	Extremely facile synthesis of manganese dioxide-polyaniline nano-reticulation with enhanced electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2016 , 677, 281-287	5.7	27
80	Synthesis and magnetoelectric effect of composites with CoFe ₂ O ₄ -epoxy embedded in 3 $\bar{1}$ type porous PZT ceramics. <i>Ceramics International</i> , 2015 , 41, 11080-11085	5.1	13
79	Facile synthesis of tremella-like MnO ₂ and its application as supercapacitor electrodes. <i>Frontiers of Materials Science</i> , 2015 , 9, 234-240	2.5	20
78	Facile synthesis of well-dispersed CeO ₂ /CuOx composite hollow spheres with superior catalytic activity for CO oxidation. <i>RSC Advances</i> , 2015 , 5, 95133-95139	3.7	14
77	Synthesis of TiO ₂ hollow spheres with tunable pore structure and enhanced photocatalytic activity. <i>Ceramics International</i> , 2015 , 41, 14615-14620	5.1	14
76	Fabrication of porous silver/titania composite hollow spheres with enhanced photocatalytic performance. <i>Materials Chemistry and Physics</i> , 2015 , 149-150, 1-6	4.4	10
75	Design and synthesis of hierarchically porous MnO ₂ /carbon hybrids for high performance electrochemical capacitors. <i>Journal of Colloid and Interface Science</i> , 2015 , 438, 61-67	9.3	25
74	Grain Orientation and Domain Configuration in 3-1 Type Porous PZT Ceramics with Ultrahigh Piezoelectric Properties. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2700-2702	3.8	11
73	Optimal Synthesis of Manganese Oxide/Carbon Sphere Hybrids through a Chemical Deposition Process. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, M46-M50	2	2
72	Impregnation of porous mullite with Na ₂ SO ₄ phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 134, 268-274	6.4	48
71	Honeycomb-alumina supported garnet membrane: Composite electrolyte with low resistance and high strength for lithium metal batteries. <i>Journal of Power Sources</i> , 2015 , 281, 399-403	8.9	7
70	YSZ fiber-reinforced porous YSZ ceramics with lowered thermal conductivity: Influence of the sintering temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 600, 76-81	5.3	14
69	Piezoelectric Properties of a Pioneering 3-1 Type PZT/Epoxy Composites Based on Freeze-Casting Processing. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1511-1516	3.8	27
68	Synthesis of aluminum-doped mesoporous zirconia with improved thermal stability. <i>Microporous and Mesoporous Materials</i> , 2014 , 186, 1-6	5.3	12
67	A specially designed Li $\bar{1}$ 2O ₂ semi-fuel cell: A potential choice for electric vehicle propulsion. <i>RSC Advances</i> , 2014 , 4, 18894	3.7	6
66	Garnet-type Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ thin sheet: Fabrication and application in lithium-hydrogen peroxide semi-fuel cell. <i>Electrochemistry Communications</i> , 2014 , 48, 147-150	5.1	30

65	Fabrication of porous alumina/zirconia ceramics by gel-casting and infiltration methods. <i>Materials & Design</i> , 2014 , 63, 1-5		29
64	Hierarchically porous YSZ hollow spheres with ultralow thermal conductivity. <i>Materials Research Bulletin</i> , 2014 , 57, 79-84	5.1	5
63	Multi-enhanced-phonon scattering modes in Ln-Me-A sites co-substituted LnMeA ₁₁ O ₁₉ ceramics. <i>Scientific Reports</i> , 2014 , 4, 6823	4.9	12
62	Synthesis of bamboo-like SiC whiskers from waste silica fume. <i>Crystal Research and Technology</i> , 2014 , 49, 290-297	1.3	17
61	Porous YSZ Ceramics Reinforced by Different Kinds of Fibers. <i>International Journal of Applied Ceramic Technology</i> , 2014 , 11, 824-831	2	5
60	Al ₂ O ₃ -fiber-reinforced porous YSZ ceramics with high mechanical strength. <i>Ceramics International</i> , 2014 , 40, 10329-10335	5.1	19
59	Excess lithium salt functions more than compensating for lithium loss when synthesizing Li _{6.5} La ₃ Ta _{0.5} Zr _{1.5} O ₁₂ in alumina crucible. <i>Journal of Power Sources</i> , 2014 , 260, 109-114	8.9	81
58	A novel way to fabricate tubular porous mullite membrane supports by TBA-based freezing casting method. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 3249-3256	6	59
57	Thermal shock behavior of ZrB ₂ -SiC ceramics with different quenching media. <i>Frontiers of Materials Science</i> , 2013 , 7, 184-189	2.5	5
56	Effects of mono-dispersed PMMA micro-balls as pore-forming agent on the properties of porous YSZ ceramics. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1859-1865	6	50
55	Effect of starch addition on microstructure and properties of highly porous alumina ceramics. <i>Ceramics International</i> , 2013 , 39, 8833-8839	5.1	84
54	Hierarchically porous Co ₃ O ₄ hollow spheres with tunable pore structure and enhanced catalytic activity. <i>Chemical Communications</i> , 2013 , 49, 7427-9	5.8	54
53	Fabrication and characterization of ceramic coatings with alumina/silica sol-incorporated alumina powder coated on woven quartz fiber fabrics. <i>Ceramics International</i> , 2013 , 39, 6041-6050	5.1	17
52	Porous yttria-Stabilized Zirconia Ceramics Fabricated by Nonaqueous-Based Gelcasting Process with PMMA Microsphere as Pore-Forming Agent. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 266-271	3.8	33
51	Porous anorthite ceramics with ultra-low thermal conductivity. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2573-2578	6	83
50	Improved Heat Insulation and Mechanical Properties of Highly Porous YSZ Ceramics After Silica Aerogels Impregnation. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3223-3227	3.8	19
49	Microstructure and High-temperature Oxidation Behavior of Ti ₃ AlC ₂ /W Composites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 584-591	3.8	4
48	A novel way to fabricate highly porous fibrous YSZ ceramics with improved thermal and mechanical properties. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2213-2218	6	57

47	Numerical calculations of effective thermal conductivity of porous ceramics by image-based finite element method. <i>Frontiers of Materials Science</i> , 2012 , 6, 79-86	2.5	5
46	Effect of YSZ fiber addition on microstructure and properties of porous YSZ ceramics. <i>Journal of Materials Science</i> , 2012 , 47, 6326-6332	4.3	9
45	Indentation Deformation and Microcracking in β -Si ₃ N ₄ -Based Nanoceramic. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1421-1428	3.8	8
44	Oxidation Behavior of SiC Platelet-Reinforced ZrB ₂ Ceramic Matrix Composites. <i>International Journal of Applied Ceramic Technology</i> , 2012 , 9, 178-185	2	9
43	Influence of Conductive Nano-TiC on Microstructural Evolution of Si ₃ N ₄ -Based Nanocomposites in Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 959-967	3.8	16
42	Effect of Heating Rate on Spark Plasma Sintering of a Nanosized β -Si ₃ N ₄ -Based Powder. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1182-1190	3.8	22
41	Piezoelectric Properties of the 1 β Type Porous Lead Zirconate Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1794-1799	3.8	43
40	Porous YSZ ceramics with unidirectionally aligned pore channel structure: Lowering thermal conductivity by silica aerogels impregnation. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2915-2922	6	21
39	High lithium ion conduction in garnet-type Li ₆ La ₃ ZrTaO ₁₂ . <i>Electrochemistry Communications</i> , 2011 , 13, 1289-1292	5.1	110
38	Porous yttria-stabilized zirconia ceramics with ultra-low thermal conductivity. Part II: temperature dependence of thermophysical properties. <i>Journal of Materials Science</i> , 2011 , 46, 623-628	4.3	23
37	Effects of pore size and orientation on dielectric and piezoelectric properties of 1 β type porous PZT ceramics. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 605-609	6	54
36	Effects of Mullite Content on the Properties and Microstructure of Porous Anorthite/Mullite Composite Ceramics. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011 , 26, 1095-1100	1	12
35	Porous PZT Ceramics with High Hydrostatic Figure of Merit and Low Acoustic Impedance by TBA-Based Gel-Casting Process. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1427	3.8	36
34	Microstructure and Electrical Properties of Porous PZT Ceramics Fabricated by Different Methods. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1984	3.8	30
33	Rapid Assembly Processes of Ordered Inorganic/Organic Nanocomposites 2010 ,		1
32	Electrochemical synthesis and properties of layer-structured polypyrrole/montmorillonite nanocomposite films. <i>Journal of Materials Research</i> , 2010 , 25, 658-664	2.5	3
31	Enhanced piezoelectric property of porous lead zirconate titanate ceramics with one dimensional ordered pore structure. <i>Journal of Applied Physics</i> , 2010 , 108, 124112	2.5	30
30	Effect of sintering temperature on compressive strength of porous yttria-stabilized zirconia ceramics. <i>Ceramics International</i> , 2010 , 36, 1697-1701	5.1	76

29	Preparation and mechanical properties of ZrB ₂ -based ceramics using MoSi ₂ as sintering aids. <i>Frontiers of Materials Science in China</i> , 2010 , 4, 271-275		12
28	Preparation and characterization of ZrB ₂ -SiC ultra-high temperature ceramics by microwave sintering. <i>Frontiers of Materials Science in China</i> , 2010 , 4, 276-280		20
27	Porous yttria-stabilized zirconia ceramics with ultra-low thermal conductivity. <i>Journal of Materials Science</i> , 2010 , 45, 3242-3246	4.3	81
26	Control of pore channel size during freeze casting of porous YSZ ceramics with unidirectionally aligned channels using different freezing temperatures. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 3389-3396	6	114
25	Effects of sintering behavior on microstructure and piezoelectric properties of porous PZT ceramics. <i>Ceramics International</i> , 2010 , 36, 549-554	5.1	45
24	THERMAL-ELASTIC BEHAVIORS OF STAGGERED COMPOSITES. <i>International Journal of Applied Mechanics</i> , 2009 , 01, 569-580	2.4	4
23	Preparation and mechanical properties of laminated zirconium diboride/molybdenum composites sintered by spark plasma sintering. <i>Frontiers of Materials Science in China</i> , 2009 , 3, 273-280		3
22	Fabrication of Low Density High Strength Porous Mullite Ceramics by Tert-butyl Alcohol-based Gelcasting Process. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 1173-1177	1	5
21	Poly(amic acid)clay nacrelike composites prepared by electrophoretic deposition. <i>Journal of Materials Research</i> , 2008 , 23, 1706-1712	2.5	23
20	Preparation of acrylic anodic electrophoretic resin/clay nanocomposite films by water-based electrodeposition. <i>Composites Science and Technology</i> , 2008 , 68, 880-887	8.6	12
19	An efficient biomimetic process for fabrication of artificial nacre with ordered-nanostructure. <i>Materials Science and Engineering C</i> , 2008 , 28, 218-222	8.3	72
18	Special assembly of laminated nanocomposite that mimics nacre. <i>Materials Science and Engineering C</i> , 2008 , 28, 1031-1037	8.3	32
17	Processing and Mechanical Properties of Zirconium Diboride-Based Ceramics Prepared by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1992-1997	3.8	107
16	Ceramics With Ultra-Low Density Fabricated by Gelcasting: An Unconventional View. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3424-3429	3.8	70
15	Ceramics with Special Porous Structures Fabricated by Freeze-Gelcasting: Using tert-Butyl Alcohol as a Template. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3478-3484	3.8	148
14	Polyacrylamide-clay nacre-like nanocomposites prepared by electrophoretic deposition. <i>Composites Science and Technology</i> , 2007 , 67, 2770-2774	8.6	86
13	A novel simple method to stably synthesize Ti ₃ AlC ₂ powder with high purity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 428, 54-58	5.3	61
12	Improved sinterability of SiC(w)/Si ₃ N ₄ composites by whisker-oriented alignment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 390, 319-325	5.3	5

11	Quantitative phase analysis in the TiAlC ternary system by X-ray diffraction. <i>Powder Diffraction</i> , 2005 , 20, 218-223	1.8	46
10	Complex Impedance Analysis on the Orientation Effect of Whiskers in Oriented Silicon Carbide Whisker/Silicon Nitride Composites. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2689-2692	3.8	6
9	Synthesis and mechanical properties of Ti ₃ AlC ₂ by spark plasma sintering. <i>Journal of Materials Science</i> , 2003 , 38, 3111-3115	4.3	75
8	A possible mechanism on synthesis of Ti ₃ AlC ₂ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 352, 333-339	5.3	96
7	Control of Composition and Structure in Laminated Silicon Nitride/Boron Nitride Composites. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2457-2461	3.8	50
6	A study on the orientation relationship between Ti ₃ SiC ₂ and TiC grains. <i>Materials Letters</i> , 2002 , 57, 106-109	3.9	14
5	Preparation of Ti ₃ AlC ₂ and Ti ₂ AlC by self-propagating high-temperature synthesis. <i>Journal of Materials Science Letters</i> , 2001 , 20, 1971-1973		65
4	Improved Resistance to Damage of Silicon Carbide-Whisker-Reinforced Silicon Nitride-Matrix Composites by Whisker-Oriented Alignment. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 161-164	3.8	15
3	Microstructure and properties of porous Si ₃ N ₄ ceramics by gelcasting-self-propagating high-temperature synthesis (SHS). <i>Journal of Advanced Ceramics</i> , 1	10.7	1
2	Exploring the Formation Mechanism of Deformation Twins in CrMnFeCoNi High Entropy Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 1	2.5	0
1	Tailored lithium metal/polymer electrolyte interface with LiTa ₂ PO ₈ fillers in PEO-based composite electrolyte. <i>Rare Metals</i> , 1	5.5	1