

# Tohru Sekino

## List of Publications by Year in descending order

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336  
papers

10,720  
citations

61984

43  
h-index

39675

94  
g-index

347  
all docs

347  
docs citations

347  
times ranked

10274  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Titanium Oxide Nanotube. Langmuir, 1998, 14, 3160-3163.	3.5	2,330
2	Titania Nanotubes Prepared by Chemical Processing. Advanced Materials, 1999, 11, 1307-1311.	21.0	1,492
3	Dye-sensitized TiO <sub>2</sub> nanotube solar cells: fabrication and electronic characterization. Physical Chemistry Chemical Physics, 2005, 7, 4157.	2.8	275
4	Reduction and Sintering of a Nickel-Dispersed Alumina Composite and Its Properties. Journal of the American Ceramic Society, 1997, 80, 1139-1148.	3.8	250
5	Tough and strong Ce-TZP/Alumina nanocomposites doped with titania. Ceramics International, 1998, 24, 497-506.	4.8	166
6	Preparation and characterization of chitosan-grafted multiwalled carbon nanotubes and their electrochemical properties. Carbon, 2007, 45, 1212-1218.	10.3	163
7	Fabrication of epoxy/silicon nitride nanowire composites and evaluation of their thermal conductivity. Journal of Materials Chemistry A, 2013, 1, 3440.	10.3	124
8	Fabrication and mechanical properties of 5 vol% copper dispersed alumina nanocomposite. Journal of the European Ceramic Society, 1998, 18, 31-37.	5.7	121
9	Fabrication and Microstructure of Silicon Nitride/Boron Nitride Nanocomposites. Journal of the American Ceramic Society, 2002, 85, 2678-2688.	3.8	118
10	Photoinduced Charge Separation in Titania Nanotubes. Journal of Physical Chemistry B, 2006, 110, 14055-14059.	2.6	114
11	Machinability of Silicon Nitride/Boron Nitride Nanocomposites. Journal of the American Ceramic Society, 2002, 85, 2689-2695.	3.8	108
12	RGO/Ag <sub>2</sub> S/TiO <sub>2</sub> ternary heterojunctions with highly enhanced UV-NIR photocatalytic activity and stability. Applied Catalysis B: Environmental, 2017, 204, 593-601.	20.2	108
13	Microstructural characteristics and mechanical properties for Al <sub>2</sub> O <sub>3</sub> /metal nanocomposites. Scripta Materialia, 1995, 6, 663-666.	0.5	101
14	Synthesis of solar light responsive Fe, N co-doped TiO <sub>2</sub> photocatalyst by sonochemical method. Catalysis Today, 2013, 212, 75-80.	4.4	100
15	One-step reverse micelle polymerization of organic dispersible polyaniline nanoparticles. Synthetic Metals, 2009, 159, 123-131.	3.9	96
16	A Novel Method for Synthesis of Titania Nanotube Powders using Rapid Breakdown Anodization. Chemistry of Materials, 2009, 21, 1967-1979.	6.7	95
17	Effect of MgO Doping on the Phase Transformations of BaTiO <sub>3</sub> . Journal of the American Ceramic Society, 2000, 83, 107-12.	3.8	90
18	Synthesis of Bismuth Sodium Titanate Nanosized Powders by Solution/Sol-Gel Process. Journal of the American Ceramic Society, 2003, 86, 1464-1467.	3.8	88

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19	Preparation and Electric Properties of Dense Nanocrystalline Zinc Oxide Ceramics. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1016-1018.	3.8	87
20	Fabrication and mechanical properties of fine-tungsten-dispersed alumina-based composites. <i>Journal of Materials Science</i> , 1997, 32, 3943-3949.	3.7	85
21	Roles of Cr <sup>3+</sup> doping and oxygen vacancies in SrTiO <sub>3</sub> photocatalysts with high visible light activity for NO removal. <i>Journal of Catalysis</i> , 2013, 297, 65-69.	6.2	84
22	Er <sup>3+</sup> /Yb <sup>3+</sup> -co-doped bismuth molybdate nanosheets upconversion photocatalyst with enhanced photocatalytic activity. <i>Journal of Solid State Chemistry</i> , 2014, 209, 74-81.	2.9	80
23	Microwave assisted hydrothermal synthesis of Ag/AgCl/WO <sub>3</sub> photocatalyst and its photocatalytic activity under simulated solar light. <i>Journal of Solid State Chemistry</i> , 2013, 197, 560-565.	2.9	77
24	Thermal stability evaluation of diamond-like nanocomposite coatings. <i>Thin Solid Films</i> , 2003, 434, 49-54.	1.8	74
25	Preparation and characterization of metal/ceramic nanoporous nanocomposite powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 266, 12-19.	2.3	72
26	UV, visible and near-infrared lights induced NO <sub>x</sub> destruction activity of (Yb,Er)-NaYF <sub>4</sub> /C-TiO <sub>2</sub> composite. <i>Scientific Reports</i> , 2013, 3, 2918.	3.3	71
27	The effect of TiO <sub>2</sub> addition on strengthening and toughening in intragranular type of 12Ce-TZP/Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Journal of the European Ceramic Society</i> , 1998, 18, 209-219.	5.7	70
28	Mechanical and magnetic properties of nickel dispersed alumina-based nanocomposite. <i>Materials Letters</i> , 1996, 29, 165-169.	2.6	68
29	Tribological and microstructural analysis of Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanocomposites to use in the femoral head of hip replacement. <i>Wear</i> , 2003, 255, 1040-1044.	3.1	65
30	Fabrication, structure, mechanical and thermal properties of zirconia-based ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1497-1505.	5.7	65
31	CTAB-Assisted Synthesis of Size- and Shape-Controlled Gold Nanoparticles in SDS Aqueous Solution. <i>Materials Letters</i> , 2009, 63, 2038-2040.	2.6	64
32	Microstructure and tribological properties of SiO <sub>x</sub> /DLC films grown by PECVD. <i>Surface and Coatings Technology</i> , 2005, 194, 128-135.	4.8	62
33	Fabrication and characteristics of fine-grained BaTiO <sub>3</sub> ceramics by spark plasma sintering. <i>Ceramics International</i> , 2004, 30, 405-410.	4.8	60
34	Green phosphorescence-assisted degradation of rhodamine B dyes by Ag <sub>3</sub> PO <sub>4</sub> . <i>Journal of Materials Chemistry A</i> , 2013, 1, 1123-1126.	10.3	58
35	Osteogenic activity of titanium surfaces with nanonetwork structures. <i>International Journal of Nanomedicine</i> , 2014, 9, 1741.	6.7	58
36	Deformation of sapphire induced by a spherical indentation on the (101̄ <sub>1</sub> ,0) plane. <i>Applied Physics Letters</i> , 1996, 68, 1063-1065.	3.3	53

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37	$\lambda^3$ -ray synthesis of composite nanoparticles of noble metals and magnetic iron oxides. Scripta Materialia, 2004, 51, 467-472.	5.2	53
38	Microstructure and mechanical properties of yttria stabilized zirconia/silicon carbide nanocomposites. Journal of the European Ceramic Society, 1998, 18, 693-699.	5.7	49
39	Fabrication of Cu dispersed Al <sub>2</sub> O <sub>3</sub> nanocomposites using Al <sub>2</sub> O <sub>3</sub> /CuO and Al <sub>2</sub> O <sub>3</sub> /Cu-nitrate mixtures. Scripta Materialia, 2001, 44, 2117-2120.	5.2	49
40	Improvement in fracture strength in electrically conductive AlN ceramics with high thermal conductivity. Ceramics International, 2016, 42, 13183-13189.	4.8	49
41	Fabrication of YAG/SiC nanocomposites by spark plasma sintering. Journal of the European Ceramic Society, 2002, 22, 785-789.	5.7	48
42	Practical microwave-induced hydrothermal synthesis of rectangular prism-like CaTiO <sub>3</sub> . CrystEngComm, 2013, 15, 2359.	2.6	45
43	Smart window coating based on F-TiO <sub>2</sub> -KxWO <sub>3</sub> nanocomposites with heat shielding, ultraviolet isolating, hydrophilic and photocatalytic performance. Scientific Reports, 2016, 6, 27373.	3.3	44
44	Effects of stacking sequence and short-range ordering of solute atoms on elastic properties of Mg-Zn-Y alloys with long-period stacking ordered structures. Acta Materialia, 2015, 96, 170-188.	7.9	42
45	Effect of $\lambda^1/\lambda^2$ phase ratio on microstructure and mechanical properties of silicon nitride ceramics. Journal of Materials Research, 2001, 16, 2264-2270.	2.6	41
46	Photoluminescence of samarium-doped TiO <sub>2</sub> nanotubes. Journal of Solid State Chemistry, 2011, 184, 2695-2700.	2.9	41
47	Fabrication process and electrical properties of BaTiO <sub>3</sub> /Ni nanocomposites. Scripta Materialia, 1997, 9, 547-550.	0.5	40
48	Effect of ultraviolet treatment on bacterial attachment and osteogenic activity to alkali-treated titanium with nanonetwork structures. International Journal of Nanomedicine, 2017, Volume 12, 4633-4646.	6.7	40
49	Mechanical properties and microstructure for 3 mol% yttria doped zirconia/silicon carbide nanocomposites. Journal of the European Ceramic Society, 2003, 23, 773-780.	5.7	39
50	Deposition and microstructure of Ti-containing diamond-like carbon nanocomposite films. Thin Solid Films, 2005, 473, 252-258.	1.8	39
51	Synthesis, characterization and evaluation of the photocatalytic performance of Ag-CdMoO <sub>4</sub> solar light driven plasmonic photocatalyst. Materials Research Bulletin, 2013, 48, 3367-3373.	5.2	39
52	Synthesis of photoresponsive azobenzene chromophore-modified multi-walled carbon nanotubes. Carbon, 2007, 45, 2445-2448.	10.3	38
53	Non-linear surface deformation of the (101 $\bar{1}$ ,0) plane of sapphire: identification of the linear features around spherical impressions. Acta Materialia, 1999, 47, 4329-4338.	7.9	37
54	Nanostructured Ti6Al4V alloy fabricated using modified alkali-heat treatment: Characterization and cell adhesion. Materials Science and Engineering C, 2016, 59, 617-623.	7.3	37

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55	Electrochemical synthesis of silica-doped high aspect-ratio titania nanotubes as nanobioceramics for implant applications. <i>Electrochimica Acta</i> , 2009, 54, 3255-3269.	5.2	36
56	Fabrication of graphene layers from multiwalled carbon nanotubes using high dc pulse. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	36
57	Thermal conductivity of hot-pressed hexagonal boron nitride. <i>Scripta Materialia</i> , 2016, 124, 138-141.	5.2	36
58	In-situ fabrication of ceramic/Metal nanocomposites by reduction reaction in barium titanateâ€“Metal oxide systems. <i>Journal of the European Ceramic Society</i> , 1998, 18, 2193-2199.	5.7	35
59	The Synthesis of Lead-Free Ferroelectric Bi1/2Na1/2TiO3 Thin Film by Solution-Sol?Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 33, 307-314.	2.4	35
60	Fabrication of Al2O3/BN Nanocomposites by Chemical Processing and Their Mechanical Properties. <i>Journal of Materials Research</i> , 2005, 20, 183-190.	2.6	35
61	Influence of ionic sizes of rare earths on thermoelectric properties of perovskite-type rare earth cobalt oxides RCoO3 (R=Pr, Nd, Tb, Dy). <i>Journal of Alloys and Compounds</i> , 2009, 484, 246-248.	5.5	35
62	Thermal and mechanical properties of hot pressed translucent Y2O3 doped Mgâ€“1±/2-Sialon ceramics. <i>Journal of Alloys and Compounds</i> , 2013, 557, 112-119.	5.5	35
63	Microstructure and mechanical properties of SiCâ€“mullite nanocomposite prepared by spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 334, 262-266.	5.6	34
64	Understanding the infrared to visible upconversion luminescence properties of Er3+/Yb3+ co-doped BaMoO4 nanocrystals. <i>Journal of Solid State Chemistry</i> , 2014, 216, 36-41.	2.9	34
65	Phase transformation, microstructure and mechanical properties of Si3N4/SiC composite. <i>Journal of the European Ceramic Society</i> , 2001, 21, 2179-2183.	5.7	33
66	Fabrication of complex-shaped alumina/nickel nanocomposites by gelcasting process. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3419-3425.	5.7	33
67	Gamma-ray synthesis of magnetic nanocarrier composed of gold and magnetic iron oxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 144-150.	2.3	33
68	Crystal Growth of Thiol-Stabilized Gold Nanoparticles by Heat-Induced Coalescence. <i>Nanoscale Research Letters</i> , 2010, 5, 813-817.	5.7	33
69	Effect of particle size distribution and mixing homogeneity on microstructure and strength of alumina/copper composites. <i>Scripta Materialia</i> , 1998, 10, 327-332.	0.5	31
70	Mechanical and Magnetic Properties of Novel Ytria-Stabilized Tetragonal Zirconia/Ni Nanocomposite Prepared by the Modified Internal Reduction Method. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1468-1473.	3.8	31
71	Preparation and Electrical Properties of Carbon Nanotubes Dispersed Zirconia Nanocomposites. <i>Key Engineering Materials</i> , 2006, 317-318, 661-664.	0.4	31
72	Synthesis and Applications of Titanium Oxide Nanotubes. <i>Topics in Applied Physics</i> , 2010, , 17-32.	0.8	30

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73	Structural characteristics of diamond-like nanocomposite films grown by PECVD. <i>Materials Letters</i> , 2003, 57, 3305-3310.	2.6	29
74	Production of a grain boundary phase as conducting pathway in insulating AlN ceramics. <i>Acta Materialia</i> , 2007, 55, 6170-6175.	7.9	29
75	Electrochemical Growth of Vertically-Oriented High Aspect Ratio Titania Nanotubes by Rapid Anodization in Fluoride-Free Media. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1803-1818.	0.9	29
76	Optical, mechanical, and dielectric properties of Bi <sub>1/2</sub> Na <sub>1/2</sub> TiO <sub>3</sub> thin film synthesized by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 306-310.	2.4	27
77	Peculiar surface deformation of sapphire: Numerical simulation of nanoindentation. <i>Applied Physics Letters</i> , 2003, 83, 5214-5216.	3.3	26
78	Effect of microwave-assisted hydrothermal process parameters on formation of different TiO <sub>2</sub> nanostructures. <i>Catalysis Today</i> , 2016, 266, 46-52.	4.4	26
79	Fine TiO <sub>2</sub> -dispersed Al <sub>2</sub> O <sub>3</sub> composites and their mechanical and electrical properties. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3181-3190.	3.8	26
80	Cr-doped TiO <sub>2</sub> nanotubes with a double-layer model: An effective way to improve the efficiency of dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 458, 523-528.	6.1	25
81	Fabrication of Al <sub>2</sub> O <sub>3</sub> /W nanocomposites. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1991, 38, 326-330.	0.2	24
82	Synthesis of gold/magnetic iron oxide composite nanoparticles for biomedical applications with good dispersibility. <i>Journal of Applied Physics</i> , 2006, 99, 08H101.	2.5	24
83	Synthesis of Er <sup>3+</sup> loaded barium molybdate nanoparticles: A new approach for harvesting solar energy. <i>Materials Letters</i> , 2013, 91, 294-297.	2.6	24
84	Room-Temperature H <sub>2</sub> Gas Sensing Characterization of Graphene-Doped Porous Silicon via a Facile Solution Dropping Method. <i>Sensors</i> , 2017, 17, 2750.	3.8	24
85	1T/2H-MoS <sub>2</sub> engineered by in-situ ethylene glycol intercalation for improved toluene sensing response at room temperature. <i>Advanced Powder Technology</i> , 2020, 31, 1868-1878.	4.1	24
86	Phase stability and electrical property of NiO-doped yttria-stabilized zirconia. <i>Materials Letters</i> , 2003, 57, 1624-1628.	2.6	23
87	Microstructure and dielectric properties of sintered Li-Nb-Ti-O solid solution ceramics having superstructure. <i>Materials Research Innovations</i> , 2003, 7, 74-79.	2.3	23
88	Isotropic enhancement of the thermal conductivity of polymer composites by dispersion of equiaxed polyhedral boron nitride fillers. <i>Composites Science and Technology</i> , 2021, 208, 108770.	7.8	23
89	Manufacturing Nano-Diphasic Materials from Natural Dolomite: In Situ Observation of Nanophase Formation Behavior. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2949-2955.	3.8	22
90	The effect of adding silica to zirconia to counteract zirconia's tendency to degrade at low temperatures. <i>Dental Materials Journal</i> , 2011, 30, 330-335.	1.8	22

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91	Cell Differentiation on Nanoscale Features of a Titanium Surface: Effects of Deposition Time in NaOH Solution. <i>Journal of Hard Tissue Biology</i> , 2014, 23, 63-70.	0.4	22
92	Fe and Zn co-substituted beta-tricalcium phosphate ( $\beta$ -TCP): Synthesis, structural, magnetic, mechanical and biological properties. <i>Materials Science and Engineering C</i> , 2020, 112, 110918.	7.3	22
93	Dissolution-Precipitation Synthesis and Characterization of Zinc Whitlockite with Variable Metal Content. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3586-3593.	5.2	22
94	A new type of nanocomposite in tetragonal zirconia polycrystal-molybdenum system. <i>Materials Letters</i> , 1994, 20, 299-304.	2.6	21
95	Synthesis of nanograin ZrO <sub>2</sub> -based composites by chemical processing and pulse electric current sintering. <i>Materials Letters</i> , 1999, 38, 18-21.	2.6	21
96	Low-temperature hydrothermal synthesis and characterization of SrTiO <sub>3</sub> photocatalysts for NO <sub>x</sub> degradation. <i>Journal of the Ceramic Society of Japan</i> , 2018, 126, 135-138.	1.1	21
97	Processing and properties of copper dispersed alumina matrix nanocomposites. <i>Scripta Materialia</i> , 1998, 10, 267-272.	0.5	20
98	Synthesis and Properties of Titania Nanotube Doped with Small Amount of Cations. <i>Key Engineering Materials</i> , 2006, 317-318, 251-254.	0.4	20
99	Influence of the size-controlled TiO <sub>2</sub> nanotubes fabricated by low-temperature chemical synthesis on the dye-sensitized solar cell properties. <i>Journal of Materials Science</i> , 2011, 46, 1749-1757.	3.7	20
100	Preparation And Corrosion Studies Of Self-Healing Multi-Layered Nano Coatings Of Silica And Swelling Clay. <i>Materials Research Innovations</i> , 2004, 8, 84-88.	2.3	20
101	Hydrogen reduction behavior of NiO dispersoid during processing of Al <sub>2</sub> O <sub>3</sub> /Ni nanocomposites. <i>Scripta Materialia</i> , 2001, 44, 2121-2125.	5.2	19
102	Solid Solution Effects of a Small Amount of Nickel Oxide Addition on Phase Stability and Mechanical Properties of Yttria-Stabilized Tetragonal Zirconia Polycrystals. <i>Journal of the American Ceramic Society</i> , 2003, 86, 523-525.	3.8	19
103	Facile one-pot synthesis and characterization of novel nanostructured organic dispersible polyaniline. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1024-1029.	2.1	19
104	Homogeneously bulk porous calcium hexaaluminate (CaAl <sub>12</sub> O <sub>19</sub> ): Reactive sintering and microstructure development. <i>Ceramics International</i> , 2018, 44, 4462-4466.	4.8	19
105	Effect of mussel adhesive protein coating on osteogenesis in vitro and osteointegration in vivo to alkali-treated titanium with nanonetwork structures. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3831-3843.	6.7	19
106	Incorporation of tetracarboxylate ions into octacalcium phosphate for the development of next-generation biofriendly materials. <i>Communications Chemistry</i> , 2021, 4, .	4.5	19
107	Mechanical Properties of Si <sub>3</sub> N <sub>4</sub> /BN Composites by Chemical Processing. <i>Key Engineering Materials</i> , 1999, 161-163, 475-480.	0.4	18
108	EDTA mediated microwave hydrothermal synthesis of WO <sub>3</sub> hierarchical structure and its photoactivity under simulated solar light. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1365-1370.	6.7	18

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109	The effects of sintering temperature on mechanical and electrical properties of Al <sub>2</sub> O <sub>3</sub> /Ti composites. <i>Materials Today Communications</i> , 2020, 25, 101522.	1.9	18
110	Hydroxyapatite Formation from Octacalcium Phosphate and Its Related Compounds: A Discussion of the Transformation Mechanism. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 701-707.	3.2	18
111	Novel method for insertion of Pt/CeZrO <sub>2</sub> nanoparticles into mesoporous SBA-16 using hydrothermal treatment. <i>Applied Catalysis A: General</i> , 2013, 458, 137-144.	4.3	17
112	Temperature stability of PIN-PMN-PT ternary ceramics during pyroelectric power generation. <i>Journal of Alloys and Compounds</i> , 2018, 768, 22-27.	5.5	17
113	Optimized Surface Characteristics and Enhanced in Vivo Osseointegration of Alkali-Treated Titanium with Nanonetwork Structures. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1127.	4.1	17
114	Synthesis of porphyrin nanodisks from COFs through mechanical stirring and their photocatalytic activity. <i>Applied Surface Science</i> , 2020, 513, 145720.	6.1	17
115	Mechanical and Magnetic Properties of Nickel-Dispersed Tetragonal Zirconia Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 485-490.	0.9	16
116	Mechanical properties of 2.0-3.5 mol% Y <sub>2</sub> O <sub>3</sub> -stabilized zirconia polycrystals fabricated by the solid phase mixing and sintering method. <i>Journal of the Ceramic Society of Japan</i> , 2008, 116, 1270-1277.	1.1	16
117	Increasing Resistivity of Electrically Conductive Ceramics by Insulating Grain Boundary Phase. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2759-2763.	8.0	16
118	Translucency and low-temperature degradation of silica-doped zirconia: A pilot study. <i>Dental Materials Journal</i> , 2016, 35, 571-577.	1.8	16
119	Pyroelectric power generation from the waste heat of automotive exhaust gas. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1143-1149.	4.9	16
120	Fabrication and Characterization of Cordierite/Zircon Composites by Reaction Sintering: Formation Mechanism of Zircon. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1430-1434.	3.8	15
121	Measurement of microscopic stress distribution of multilayered composite by X-ray stress analysis. <i>Materials Letters</i> , 2003, 57, 3057-3062.	2.6	15
122	Graphene/MxWO <sub>3</sub> (M=Na, K) nanohybrids with excellent electrical properties. <i>Carbon</i> , 2015, 94, 309-316.	10.3	15
123	UV Treatment Improves the Biocompatibility and Antibacterial Properties of Crystallized Nanostructured Titanium Surface. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5991.	4.1	15
124	Enhancing piezoelectric properties of Ba <sub>0.88</sub> Ca <sub>0.12</sub> Zr <sub>0.12</sub> Ti <sub>0.88</sub> O <sub>3</sub> lead-free ceramics by doping Co ions. <i>Ceramics International</i> , 2021, 47, 3272-3278.	4.8	15
125	Selective adsorption of dyes on TiO <sub>2</sub> -modified hydroxyapatite photocatalysts morphologically controlled by solvothermal synthesis. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105738.	6.7	15
126	Multi-Functional Ceramic Composites through Nanocomposite Technology. <i>Key Engineering Materials</i> , 1998, 161-163, 527-534.	0.4	14



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127	Effect of grain growth and measurement on fracture toughness of silicon nitride ceramics. Journal of Materials Science, 1999, 34, 5543-5548.	3.7	14
128	Synthesis of Sm-doped TiO <sub>2</sub> nanotubes and analysis of their methylene blue-removal properties under dark and UV-irradiated conditions. Research on Chemical Intermediates, 2013, 39, 1581-1591.	2.7	14
129	Combinative effects of Y <sub>2</sub> O <sub>3</sub> and Ti on Al <sub>2</sub> O <sub>3</sub> ceramics for optimizing mechanical and electrical properties. Ceramics International, 2018, 44, 18382-18388.	4.8	14
130	Electrochemically assisted room-temperature crack healing of ceramic-based composites. Journal of the American Ceramic Society, 2019, 102, 4236-4246.	3.8	14
131	Enhancing Visible Light Absorption of Yellow-Colored Peroxo-Titanate Nanotubes Prepared Using Peroxo Titanium Complex Ions. ACS Omega, 2020, 5, 21753-21761.	3.5	14
132	High-pressure synthesis of LiTiMF <sub>6</sub> (M = Mn, Fe, Co, Ni) with trirutile, Na <sub>2</sub> SiF <sub>6</sub> , and PbSb <sub>2</sub> O <sub>6</sub> structures. Journal of Solid State Chemistry, 1990, 88, 505-512.	2.9	13
133	Microstructure and Mechanical Properties of Al <sub>2</sub> O <sub>3</sub> /Mo Nanocomposites.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1992, 39, 1104-1108.	0.2	13
134	Mechanical properties and residual stress in AlN films prepared by ion beam assisted deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1567-1570.	2.1	13
135	Silicon Nitride Ceramics with Sodium Ion Conductive Grain Boundary Phase. Journal of Materials Research, 2003, 18, 2752-2755.	2.6	13
136	Pulse electric current sintering of alumina/nickel nanocomposites. Materials Research Innovations, 2003, 7, 57-61.	2.3	13
137	Effect of Nanosheet Surface Structure of Titanium Alloys on Cell Differentiation. Journal of Nanomaterials, 2014, 2014, 1-11.	2.7	13
138	Impact of grain shape on the micromechanics-based extraction of single-crystalline elastic constants from polycrystalline samples with crystallographic texture. Acta Materialia, 2017, 122, 236-251.	7.9	13
139	Ti and TiC co-toughened Al <sub>2</sub> O <sub>3</sub> composites by in-situ synthesis from reaction of Ti and MWCNT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 777, 139066.	5.6	13
140	Enhanced Photocatalytic Activity of Porphyrin Nanodisks Prepared by Exfoliation of Metalloporphyrin-Based Covalent Organic Frameworks. ACS Omega, 2022, 7, 7172-7178.	3.5	13
141	Tribological evaluation of Si-O containing diamond-like carbon films. Surface and Coatings Technology, 2003, 162, 183-188.	4.8	12
142	Fabrication of metastable ZrO <sub>2</sub> - single nano-sized particles. Materials Letters, 2003, 57, 4023-4027.	2.6	12
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