

# Rahul Vaish

## List of Publications by Year in descending order

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238  
papers

4,880  
citations

109264

35  
h-index

175177

52  
g-index

244  
all docs

244  
docs citations

244  
times ranked

3498  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti-Ferroelectric Ceramics for High Energy Density Capacitors. <i>Materials</i> , 2015, 8, 8009-8031.	1.3	263
2	Selection and performance assessment of Phase Change Materials for heating, ventilation and air-conditioning applications. <i>Energy Conversion and Management</i> , 2015, 89, 260-269.	4.4	107
3	Photocatalytic, hydrophobic and antimicrobial characteristics of ZnO nano needle embedded cement composites. <i>Construction and Building Materials</i> , 2018, 158, 285-294.	3.2	91
4	Flexible Ag@LiNbO <sub>3</sub> /PVDF Composite Film for Piezocatalytic Dye/Pharmaceutical Degradation and Bacterial Disinfection. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22914-22925.	4.0	90
5	Candle soot: Journey from a pollutant to a functional material. <i>Carbon</i> , 2019, 144, 684-712.	5.4	87
6	Efficient Solar Energy Conversion Using CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Photoanode for Photocatalysis and Photoelectrocatalysis. <i>Scientific Reports</i> , 2016, 6, 18557.	1.6	83
7	Enhanced electrocaloric, pyroelectric and energy storage performance of BaCe Ti <sub>1-x</sub> O <sub>3</sub> ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 3927-3933.	2.8	79
8	Dielectric properties of Li <sub>2</sub> O-3B <sub>2</sub> O <sub>3</sub> glasses. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	77
9	Exploring the piezocatalytic dye degradation capability of lithium niobate. <i>Advanced Powder Technology</i> , 2020, 31, 1771-1775.	2.0	75
10	A review of piezoelectric energy harvesting tiles: Available designs and future perspective. <i>Energy Conversion and Management</i> , 2022, 254, 115272.	4.4	73
11	Large pyroelectric figure of merits for Sr-modified Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> ceramics. <i>Solid State Sciences</i> , 2016, 52, 10-18.	1.5	68
12	Rapid bacterial disinfection using low frequency piezocatalysis effect. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 355-364.	2.9	61
13	Dye degradation and bacterial disinfection using multicyclic BaZr <sub>0.02</sub> Ti <sub>0.98</sub> O <sub>3</sub> ceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4774-4784.	1.9	61
14	Multicaloric effect in Pb(Mn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -32PbTiO <sub>3</sub> single crystals. <i>Acta Materialia</i> , 2015, 89, 384-395.	3.8	59
15	Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO <sub>3</sub> . <i>Journal of the European Ceramic Society</i> , 2019, 39, 2915-2922.	2.8	58
16	Elastocaloric effect in ferroelectric ceramics. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	55
17	Photocatalytic, piezocatalytic, and piezophotocatalytic effects in ferroelectric (Ba <sub>0.875</sub> Ca <sub>0.125</sub> )(Ti <sub>0.95</sub> Sn <sub>0.05</sub> )O <sub>3</sub> ceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5807-5817.	1.9	54
18	A review and analysis of the elasto-caloric effect for solidstate refrigeration devices: Challenges and opportunities. <i>MRS Energy &amp; Sustainability</i> , 2015, 2, 1.	1.3	53

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19	Janus nanostructures for heterogeneous photocatalysis. Applied Physics Reviews, 2018, 5, 041111.	5.5	51
20	A technique for giant mechanical energy harvesting using ferroelectric/antiferroelectric materials. Journal of Applied Physics, 2014, 115, .	1.1	50
21	Tuning of dielectric, pyroelectric and ferroelectric properties of $0.715\text{Bi}0.5\text{Na}0.5\text{TiO}3\text{-}0.065\text{BaTiO}3\text{-}0.22\text{SrTiO}3$ ceramic by internal clamping. AIP Advances, 2015, 5, 087145.	0.6	50
22	Multicatalytic behavior of $\text{Ba}_{0.85}\text{Ca}_{0.15}\text{Ti}_{0.9}\text{Zr}_{0.1}\text{O}_3$ ceramics for pharmaceutical/dye/bacterial treatments. Journal of Applied Physics, 2020, 127, .	1.1	50
23	Elastocaloric and barocaloric effects in polyvinylidene di-fluoride-based polymers. Applied Physics Letters, 2016, 108, .	1.5	49
24	An analysis of lead-free $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.915}\text{-}(\text{Bi}_{0.5}\text{K}_{0.5})_{0.05}\text{Ba}_{0.02}\text{Sr}_{0.015}\text{TiO}_3$ ceramic for efficient refrigeration and thermal energy harvesting. Journal of Applied Physics, 2014, 115, .	1.1	48
25	Enhanced Thermal Energy Harvesting Using Li, Kâ€Doped $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ Leadâ€Free Ferroelectric Ceramics. Energy Technology, 2014, 2, 205-209.	1.8	47
26	Finite element analysis of vibration energy harvesting using lead-free piezoelectric materials: A comparative study. Journal of Asian Ceramic Societies, 2014, 2, 139-143.	1.0	45
27	A study on the structural and photocatalytic degradation of ciprofloxacin using $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.915}\text{-}(\text{Bi}_{0.5}\text{K}_{0.5})_{0.05}\text{Ba}_{0.02}\text{Sr}_{0.015}\text{TiO}_3$ ceramic. Applied Physics Letters, 2014, 104, 104101.	1.5	44
28	Thermal Energy Harvesting Using Bulk Leadâ€Free Ferroelectric Ceramics. International Journal of Applied Ceramic Technology, 2015, 12, E49.	1.1	43
29	Enhanced pyroelectric figure of merits of porous $\text{BaSn}_{0.05}\text{Ti}_{0.95}\text{O}_3$ ceramics. Journal of the European Ceramic Society, 2017, 37, 3943-3950.	2.8	43
30	Utilizing the localized surface piezoelectricity of centrosymmetric $\text{Sr}_{1-x}\text{Fe}_x\text{TiO}_3$ ( $x=0.2$ ) ceramics for piezocatalytic dye degradation. Journal of the European Ceramic Society, 2021, 41, 326-334.	2.8	42
31	Piezoelectric material selection for transducers under fuzzy environment. Journal of Advanced Ceramics, 2013, 2, 141-148.	8.9	41
32	Electrical transport characteristics of $\text{ZnO-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses. Ionics, 2013, 19, 99-104.	1.2	41
33	Multiple caloric effects in $(\text{Ba}_{0.865}\text{Ca}_{0.135}\text{Zr}_{0.1089}\text{Ti}_{0.8811}\text{Fe}_{0.01})\text{O}_3$ ferroelectric ceramic. Applied Physics Letters, 2015, 107, .	1.5	41
34	Emerging trends in glass-ceramic photocatalysts. Chemical Engineering Journal, 2021, 407, 126971.	6.6	41
35	TiO @C core@shell nanocomposites: A single precursor synthesis of photocatalyst for efficient solar water treatment. Journal of Hazardous Materials, 2020, 381, 120883.	6.5	37
36	Piezo/pyro/photoâ€catalysis activities in $\text{Ba}_{0.85}\text{Ca}_{0.15}\text{(Ti}_{0.9}\text{Zr}_{0.1})_{1-x}\text{Fe}_x\text{O}_{3+3\delta}$ ceramics. Journal of the American Ceramic Society, 2021, 104, 45-56.		

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37	Transparent ferroelectric glass-ceramics for wastewater treatment by piezocatalysis. Communications Materials, 2020, 1, .	2.9	37
38	Electrocaloric Behavior and Temperature-Dependent Scaling of Dynamic Hysteresis of Ba <sub>0.85</sub> Ca <sub>0.15</sub> Ti <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>3</sub> Ceramics. International Journal of Applied Ceramic Technology, 2015, 12, 899-907.	1.1	35
39	Photocatalytic study on SrBi <sub>2</sub> B <sub>2</sub> O <sub>7</sub> (SrO-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> ) transparent glass ceramics. Materials Research Bulletin, 2018, 99, 453-459.	2.7	34
40	Effect of Ce on piezo/photocatalytic effects of Ba <sub>0.9</sub> Ca <sub>0.1</sub> Ce <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> ceramics for dye/pharmaceutical waste water treatment. Materials Research Bulletin, 2020, 122, 110647.	2.7	34
41	WS <sub>2</sub> Monolayer for Piezo-Phototronic Dye Degradation and Bacterial Disinfection. ACS Applied Nano Materials, 2021, 4, 7879-7887.	2.4	34
42	Antibacterial ferroelectric materials: Advancements and future directions. Journal of Industrial and Engineering Chemistry, 2021, 97, 95-110.	2.9	30
43	Analysis of High-Field Energy Harvesting using Ferroelectric Materials. Energy Technology, 2014, 2, 480-485.	1.8	29
44	Highly efficient visible light mediated azo dye degradation through barium titanate decorated reduced graphene oxide sheets. Electronic Materials Letters, 2016, 12, 281-289.	1.0	29
45	Lithium aluminosilicate (LAS) glass-ceramics: a review of recent progress. International Materials Reviews, 2022, 67, 620-657.	9.4	29
46	A Prime Lead-Free Ferroelectric Ceramic for Thermal Energy Harvesting: 0.88Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> ·0.02SrTiO <sub>3</sub> ·0.1Bi <sub>0.5</sub> Li <sub>0.5</sub> TiO <sub>3</sub> Ferroelectrics, 2015, 474, 1-7.	0.53	28
47	Polyaniline/CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanofiber composite with a synergistic effect on visible light photocatalysis. RSC Advances, 2015, 5, 87241-87250.	1.7	28
48	Transparent ZnO crystallized glass ceramics for photocatalytic and antibacterial applications. Journal of Applied Physics, 2019, 125, .	1.1	28
49	Piezo-photocatalytic activity of mechanochemically synthesized BiVO <sub>4</sub> for dye cleaning. Journal of the American Ceramic Society, 2022, 105, 2309-2322.	1.9	28
50	Improved Electrical Energy Storage Density in Vanadium-Doped BaTiO <sub>3</sub> Bulk Ceramics by Addition of 3BaO·3TiO <sub>2</sub> ·B <sub>2</sub> O <sub>3</sub> Glass. Energy Technology, 2015, 3, 70-76.	1.8	27
51	Piezoelectric and Pyroelectric Materials Selection. International Journal of Applied Ceramic Technology, 2013, 10, 682-689.	1.1	26
52	Thermal energy conversion and temperature-dependent dynamic hysteresis analysis for Ba <sub>0.85</sub> Ca <sub>0.15</sub> Ti <sub>0.9</sub> Fe <sub>x</sub> Zr <sub>0.1</sub> O <sub>3</sub> ceramics. Journal of Asian Ceramic Societies, 2016, 4, 102-111.	1.0	26
53	Antibacterial and photocatalytic active transparent TiO <sub>2</sub> crystallized CaO·BaO·B <sub>2</sub> O <sub>3</sub> ·Al <sub>2</sub> O <sub>3</sub> ·TiO <sub>2</sub> ·ZnO glass nanocomposites. Journal of the American Ceramic Society, 2019, 102, 3378-3390.	1.8	26
54	Lead-free piezoelectric materials™ performance in structural active vibration control. Journal of Intelligent Material Systems and Structures, 2014, 25, 1596-1604.	1.4	25

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55	Selection of Lead-Free Piezoelectric Ceramics. International Journal of Applied Ceramic Technology, 2014, 11, 883-893.	1.1	25
56	TiO <sub>2</sub> microcrystallized glass plate mediated photocatalytic degradation of estrogenic pollutant in water. Journal of Non-Crystalline Solids, 2015, 408, 13-17.	1.5	25
57	Diesel soot coated non-woven fabric for oil-water separation and adsorption applications. Scientific Reports, 2019, 9, 8503.	1.6	25
58	Effect of poling on piezocatalytic removal of multi-pollutants using BaTiO <sub>3</sub> . Journal of the American Ceramic Society, 2021, 104, 1661-1668.	1.9	25
59	Elastocaloric Effect in Carbon Nanotubes and Graphene. Nano Letters, 2016, 16, 7008-7012.	4.5	24
60	Enhanced thermal energy conversion and dynamic hysteresis behavior of Sr-added Ba <sub>0.85</sub> Ca <sub>0.15</sub> Ti <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>3</sub> ferroelectric ceramics. Journal of Materiomics, 2016, 2, 75-86.	2.8	24
61	Adsorption of dyes onto candle soot: Equilibrium, kinetics and thermodynamics. European Physical Journal Plus, 2018, 133, 1.	1.2	24
62	Energy harvesting using piezoelectric cementitious composites for water cleaning applications. Materials Research Bulletin, 2021, 137, 111205.	2.7	24
63	Multicaloric effect in Pb(Mn <sup>1/3</sup> Nb <sup>2/3</sup> )O <sub>3</sub> -32PbTiO <sub>3</sub> single crystals: Modes of measurement. Acta Materialia, 2015, 97, 17-28.	3.8	23
64	Visible Light-Induced Photocatalytic and Antibacterial Activity of Li-Doped Bi <sub>0.5</sub> Na <sub>0.45</sub> K <sub>0.5</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> Ferroelectric Ceramics. Journal of Electronic Materials, 2015, 44, 4334-4342.	1.0	23
65	Enhanced electrocaloric effect in Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> -xSn <sub>x/6</sub> -yZr <sub>y/6</sub> ceramics. Phase Transitions, 2016, 89, 1062-1073.	1.6	23
66	Poling direction driven large enhancement in piezoelectric performance. Scripta Materialia, 2018, 151, 76-81.	2.6	23
67	Pyroelectric signals in (Ba,Ca)TiO <sub>3</sub> -xBa(Sn,Ti)O <sub>3</sub> ceramics: A viable alternative for lead-based ceramics. Scripta Materialia, 2018, 146, 146-149.	2.6	23
68	The glass transition and crystallization kinetic studies on BaNaB <sub>9</sub> O <sub>15</sub> glasses. Journal Physics D: Applied Physics, 2009, 42, 015409.	1.3	22
69	Pyro-paraelectric and flexocaloric effects in barium strontium titanate: A first principles approach. Applied Physics Letters, 2016, 108, .	1.5	22
70	Near-zero thermal expansion transparent lithium aluminosilicate glass-ceramic by microwave hybrid heat treatment. Journal of the American Ceramic Society, 2018, 101, 140-150.	1.9	22
71	Pyroelectric performance of porous Ba <sub>0.85</sub> Sr <sub>0.15</sub> TiO <sub>3</sub> ceramics. International Journal of Applied Ceramic Technology, 2018, 15, 140-147.	1.1	22
72	Solar/visible light photocatalytic dye degradation using BaTi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> ceramics. Journal of the American Ceramic Society, 2022, 105, 5140-5150.	1.9	22

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73	Selection of optimal sintering temperature of $K_{0.5}Na_{0.5}NbO_3$ ceramics for electromechanical applications. Journal of Asian Ceramic Societies, 2014, 2, 5-10.	1.0	21
74	Enhanced energy storage performance of glass added $0.715Bi_{0.5}Na_{0.5}TiO_3-0.065BaTiO_3-0.22SrTiO_3$ ferroelectric ceramics. Journal of Asian Ceramic Societies, 2015, 3, 383-389.	1.0	21
75	Visible light induced water detoxification through Portland cement composites reinforced with photocatalytic filler: A leap away from $TiO_2$ . Construction and Building Materials, 2016, 120, 364-372.	3.2	21
76	Surface-selective bactericidal effect of poled ferroelectric materials. Journal of Applied Physics, 2018, 124, .	1.1	21
77	Candle soot coated polyurethane foam as an adsorbent for removal of organic pollutants from water. European Physical Journal Plus, 2019, 134, 1.	1.2	21
78	$Bi_{0.5}Na_{0.5}TiO_3-BiOCl$ composite photocatalyst for efficient visible light degradation of dissolved organic impurities. Journal of Environmental Chemical Engineering, 2019, 7, 102842.	3.3	21
79	Experimental Study on Waste Heat Energy Harvesting using Lead Zirconate Titanate (PZT) Pyroelectric Ceramics. Energy Technology, 2015, 3, 768-773.	1.8	20
80	Structural, thermal and dielectric properties and thermal degradation kinetics of nylon 11/ $CaCu_3Ti_4O_{12}$ (CCTO) nanocomposites. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1123-1135.	2.0	20
81	Enhanced dye adsorption and rapid photocatalysis of candle soot coated $BaTiO_3$ ceramics. Materials Chemistry and Physics, 2020, 252, 123311.	2.0	20
82	Mechanical confinement for tuning ferroelectric response in PMN-PT single crystal. Journal of Applied Physics, 2015, 117, 084102.	1.1	19
83	Pyroelectric performance of $BaTi_{1-x}Sn_xO_3$ ceramics. International Journal of Applied Ceramic Technology, 2018, 15, 546-553.	1.1	19
84	Effect of ferroelectric polarization on piezo/photocatalysis in Ag nanoparticles loaded $0.5(Ba_{0.7}Ca_{0.3})TiO_3-0.5Ba(Zr_{0.1}Ti_{0.9})O_3$ composites towards the degradation of organic pollutants. Journal of the American Ceramic Society, 2022, 105, 3165-3176.	1.9	19
85	Effect of poling on piezocatalytic and electrochemical properties of $Pb(Zr_{0.52}Ti_{0.48})O_3$ ceramics. Surfaces and Interfaces, 2022, 30, 101827.	1.5	19
86	Electrical Energy Generation from Hot/Cold Air Using Pyroelectric Ceramics. Integrated Ferroelectrics, 2015, 167, 90-97.	0.3	18
87	Development of Figures of Merit for Pyroelectric Energy Harvesting Devices. Energy Technology, 2016, 4, 843-850.	1.8	18
88	Multifunctional diesel exhaust emission soot coated sponge for water treatment. Environmental Science and Pollution Research, 2019, 26, 8148-8156.	2.7	18
89	Influence of $LiNbO_3$ crystallization on the optical, dielectric and nanoindentation properties of the $30SiO_2-35Li_2O-35Nb_2O_5$ glass. Journal of Applied Physics, 2019, 126, .	1.1	18
90	A reduced graphene oxide/bismuth vanadate composite as an efficient piezocatalyst for degradation of organic dye. Materials Advances, 2021, 2, 4093-4101.	2.6	18

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91	Effect of Sr <sub>2</sub> TiMnO <sub>6</sub> fillers on mechanical, dielectric and thermal behaviour of PMMA polymer. Journal of Advanced Dielectrics, 2015, 05, 1550018.	1.5	17
92	Enhanced electrocaloric effect in Fe-doped (Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> )O <sub>3</sub> ferroelectric ceramics. Applied Materials Today, 2015, 1, 37-44.	2.3	17
93	First principles insights into improved catalytic performance of BaTiO <sub>3</sub> - graphene nanocomposites in conjugation with experimental investigations. Materials Science in Semiconductor Processing, 2016, 51, 33-41.	1.9	17
94	Pyroelectric and impedance studies of the 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Sr <sub>0.3</sub> )TiO <sub>3</sub> ceramics. Ceramics International, 2018, 44, 21976-21981.	2.3	17
95	Candle Soot-Driven Performance Enhancement in Pyroelectric Energy Conversion. Journal of Electronic Materials, 2018, 47, 4721-4730.	1.0	17
96	Transparent CaF <sub>2</sub> surface crystallized CaO <sup>2+</sup> B <sub>2</sub> O <sub>3</sub> glass possessing efficient photocatalytic and antibacterial properties. Journal of the American Ceramic Society, 2019, 102, 5127-5137.	1.9	17
97	Effect of poling condition on piezocatalysis activity of BaTiO <sub>3</sub> -cement composites. Materials Letters, 2020, 280, 128583.	1.3	17
98	Promising multicatalytic and adsorption capabilities in V <sub>2</sub> O <sub>5</sub> /BiVO <sub>4</sub> composite pellets for water-cleaning application. Surfaces and Interfaces, 2021, 23, 100924.	1.5	17
99	Controlled crystallization of photocatalytic active Bismuth oxyfluoride/Bismuth fluoride on SrO-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> transparent glass ceramic. Journal of the European Ceramic Society, 2018, 38, 3635-3642.	2.8	16
100	Finite Element Study on Performance of Piezoelectric Bimorph Cantilevers Using Porous/Ceramic <sup>3</sup> Polymer Composites. Journal of Electronic Materials, 2018, 47, 233-241.	1.0	16
101	Crystallisation studies on site saturated lithium aluminosilicate (LAS) glass. Thermochimica Acta, 2019, 679, 178311.	1.2	16
102	Tunable surface adsorption and wettability of candle soot coated on ferroelectric ceramics. Journal of Advanced Research, 2019, 16, 35-42.	4.4	16
103	Eggshell derived CaO-Portland cement antibacterial composites. Composites Part C: Open Access, 2021, 5, 100123.	1.5	16
104	Sonophotocatalytic Dye Degradation Using rGO <sup>+</sup> BiVO <sub>4</sub> Composites. Global Challenges, 2022, 6, .	1.8	16
105	Enhanced Visible Light Photocatalytic Activity of Curcumin <sup>+</sup> Sensitized Perovskite Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> for Rhodamine 6G Degradation. International Journal of Applied Ceramic Technology, 2016, 13, 333-339.	1.1	15
106	Effect of Peierls stress and strain-hardening parameters on EMR emission in metals and alloys during progressive plastic deformation. International Journal of Materials Research, 2016, 107, 503-517.	0.1	15
107	Effect of sintering temperature and dwell time on electrocaloric properties of Ba <sub>0.85</sub> Ca <sub>0.075</sub> Sr <sub>0.075</sub> Ti <sub>0.90</sub> Zr <sub>0.10</sub> O <sub>3</sub> ceramics. Phase Transitions, 2017, 90, 465-474.	0.6	15
108	Ferroelectric electrocatalysts: a new class of materials for oxygen evolution reaction with synergistic effect of ferroelectric polarization. Journal of Materials Science, 2018, 53, 1414-1423.	1.7	15

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109	Pyroelectric energy conversion using Ba <sub>0.85</sub> Sr <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> ceramics and its cement-based composites. Journal of Intelligent Material Systems and Structures, 2019, 30, 869-877.	1.4	15
110	Cement-based diesel exhaust emission soot coatings for the removal of organic pollutants from water. Construction and Building Materials, 2020, 234, 117377.	3.2	15
111	Processing Li <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> (LAS) glass-ceramic with and without P <sub>2</sub> O <sub>5</sub> through bulk and sintering route. Journal of Non-Crystalline Solids, 2020, 550, 120289.	1.5	15
112	Ag-nanoparticles-loaded Ba <sub>0.85</sub> Ca <sub>0.15</sub> Ti <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>3</sub> for multicyclic dye degradation. Nanotechnology, 2021, 32, 145716.	1.3	15
113	Screen printed calcium fluoride nanoparticles embedded antibacterial cotton fabric. Materials Chemistry and Physics, 2022, 288, 126449.	2.0	15
114	Fluid Selection of Organic Rankine Cycle Using Decision Making Approach. Journal of Computational Engineering, 2013, 2013, 1-10.	0.8	14
115	Enhanced Electrocaloric Effect in Pre-stressed Ferroelectric Materials. Energy Technology, 2015, 3, 177-186.	1.8	14
116	Selection of India's energy resources: a fuzzy decision making approach. Energy Systems, 2015, 6, 439-453.	1.8	14
117	Caloric Effects in Bulk Lead-free Ferroelectric Ceramics for Solid-state Refrigeration. Energy Technology, 2016, 4, 244-248.	1.8	14
118	Enhanced electrocatalytic performance of perovskite supported iron oxide nanoparticles for oxygen reduction reaction. RSC Advances, 2016, 6, 94826-94832.	1.7	14
119	Portable triboelectric based wind energy harvester for low power applications. European Physical Journal Plus, 2017, 132, 1.	1.2	14
120	Photocatalytic self-cleaning transparent 2Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glass ceramics. Journal of Applied Physics, 2017, 122, 094901.	1.1	14
121	Flexoelectric effect in functionally graded materials: A numerical study. European Physical Journal Plus, 2018, 133, 1.	1.2	14
122	Hierarchical growth of BiOCl on Sr <sub>0.8</sub> Bi <sub>0.2</sub> O <sub>3</sub> ceramics for self-cleaning applications. Journal of the American Ceramic Society, 2018, 101, 2901-2913.	1.9	14
123	Separation of dyes/oils from water by diesel exhaust emission soot coated polyurethane foam: a kinetic and equilibrium isotherm study. Engineering Research Express, 2019, 1, 015010.	0.8	14
124	Melt quenched V <sub>2</sub> O <sub>5</sub> /BiVO <sub>4</sub> composite: A novel and promising adsorbent and photocatalyst. Materials Chemistry and Physics, 2020, 240, 122238.	2.0	14
125	Active vibration control of smart structure using poling tuned piezoelectric material. Journal of Intelligent Material Systems and Structures, 2020, 31, 1298-1313.	1.4	14
126	Piezocatalysis in ferroelectric Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> /polyvinylidene difluoride (PVDF) composite film. Journal of Applied Physics, 2021, 130, .	1.1	14



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127	Reusable piezocatalytic water disinfection activity of CVD-grown few-layer WS <sub>2</sub> on sapphire substrate. Environmental Science: Nano, 2022, 9, 805-814.	2.2	14
128	Cyclic Electrical Energy Harvesting Using Mechanical Confinement in Ferroelectric Ceramics. International Journal of Applied Ceramic Technology, 2015, 12, 765-770.	1.1	13
129	Selection of Ferroelectric Ceramics for Transducers and Electrical Energy Storage Devices. International Journal of Applied Ceramic Technology, 2015, 12, E1.	1.1	13
130	A study on epoxy-based piezoelectric composites using finite element method. Polymer Composites, 2016, 37, 1895-1905.	2.3	13
131	Photocatalytic Active Bismuth Fluoride/Oxyfluoride Surface Crystallized 2Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> Glass-Ceramics. Journal of Electronic Materials, 2018, 47, 3490-3496.	1.0	13
132	Controlled crystallization of BiOCl/BiF <sub>3</sub> on ZnO-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glass surfaces for photocatalytic and self-cleaning applications. Materialia, 2019, 5, 100196.	1.3	13
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