

# Chris R Bowen

## List of Publications by Year in descending order

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470  
papers

19,003  
citations

14614

66  
h-index

19690

117  
g-index

487  
all docs

487  
docs citations

487  
times ranked

17877  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric and ferroelectric materials and structures for energy harvesting applications. <i>Energy and Environmental Science</i> , 2014, 7, 25-44.	15.6	926
2	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4178-4280.	18.7	810
3	Pyroelectric materials and devices for energy harvesting applications. <i>Energy and Environmental Science</i> , 2014, 7, 3836-3856.	15.6	630
4	Interface design for high energy density polymer nanocomposites. <i>Chemical Society Reviews</i> , 2019, 48, 4424-4465.	18.7	531
5	A review of growth mechanism, structure and crystallinity of anodized TiO <sub>2</sub> nanotubes. <i>Materials Science and Engineering Reports</i> , 2013, 74, 377-406.	14.8	519
6	New materials for micro-scale sensors and actuators. <i>Materials Science and Engineering Reports</i> , 2007, 56, 1-129.	14.8	438
7	Gas sensing using porous materials for automotive applications. <i>Chemical Society Reviews</i> , 2015, 44, 4290-4321.	18.7	406
8	Multiscale-structuring of polyvinylidene fluoride for energy harvesting: the impact of molecular-, micro- and macro-structure. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3091-3128.	5.2	406
9	Anti-Ferroelectric Ceramics for High Energy Density Capacitors. <i>Materials</i> , 2015, 8, 8009-8031.	1.3	263
10	Flexible Multifunctional Sensors for Wearable and Robotic Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1800626.	3.0	221
11	Fabrication of HA/TCP scaffolds with a graded and porous structure using a camphene-based freeze-casting method. <i>Acta Biomaterialia</i> , 2009, 5, 1319-1327.	4.1	207
12	Effect of heat treatment on the properties and structure of TiO <sub>2</sub> nanotubes: phase composition and chemical composition. <i>Surface and Interface Analysis</i> , 2010, 42, 139-144.	0.8	180
13	Enhanced pyroelectric and piezoelectric properties of PZT with aligned porosity for energy harvesting applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6569-6580.	5.2	176
14	Spinel photocatalysts for environmental remediation, hydrogen generation, CO <sub>2</sub> reduction and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11078-11104.	5.2	176
15	A Self-Powered Wearable Pressure Sensor and Pyroelectric Breathing Sensor Based on GO Interfaced PVDF Nanofibers. <i>ACS Applied Nano Materials</i> , 2019, 2, 2013-2025.	2.4	168
16	Electrical characterization of hydroxyapatite-based bioceramics. <i>Acta Biomaterialia</i> , 2009, 5, 743-754.	4.1	165
17	Anomalous Power Law Dispersions in ac Conductivity and Permittivity Shown to be Characteristics of Microstructural Electrical Networks. <i>Physical Review Letters</i> , 2004, 92, 157601.	2.9	160
18	Ultra-high discharged energy density capacitor using high aspect ratio Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> nanofibers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7091-7102.	5.2	157

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19	Electronic structure engineering on two-dimensional (2D) electrocatalytic materials for oxygen reduction, oxygen evolution, and hydrogen evolution reactions. <i>Nano Energy</i> , 2020, 77, 105080.	8.2	157
20	Piezoelectric Material-Polymer Composite Porous Foam for Efficient Dye Degradation via the Piezo-Catalytic Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27862-27869.	4.0	156
21	Electrically Active Bioceramics: A Review of Interfacial Responses. <i>Annals of Biomedical Engineering</i> , 2010, 38, 2079-2092.	1.3	147
22	Phase structure and properties of sodium bismuth titanate lead-free piezoelectric ceramics. <i>Progress in Materials Science</i> , 2021, 122, 100836.	16.0	139
23	Processing and properties of porous piezoelectric materials with high hydrostatic figures of merit. <i>Journal of the European Ceramic Society</i> , 2004, 24, 541-545.	2.8	137
24	Control of electro-chemical processes using energy harvesting materials and devices. <i>Chemical Society Reviews</i> , 2017, 46, 7757-7786.	18.7	135
25	Flexible and active self-powered pressure, shear sensors based on freeze casting ceramic-polymer composites. <i>Energy and Environmental Science</i> , 2018, 11, 2919-2927.	15.6	130
26	Piezoelectric effects and electromechanical theories at the nanoscale. <i>Nanoscale</i> , 2014, 6, 13314-13327.	2.8	127
27	Recent Advances in Organic and Organic-Inorganic Hybrid Materials for Piezoelectric Mechanical Energy Harvesting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	124
28	Factors influencing surface morphology of anodized TiO <sub>2</sub> nanotubes. <i>Electrochimica Acta</i> , 2012, 74, 244-253.	2.6	118
29	Energy Harvesting Technologies for Tire Pressure Monitoring Systems. <i>Advanced Energy Materials</i> , 2015, 5, 1401787.	10.2	115
30	Construction of Bio-Piezoelectric Platforms: From Structures and Synthesis to Applications. <i>Advanced Materials</i> , 2021, 33, e2008452.	11.1	114
31	Porous PZT ceramics for receiving transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 289-296.	1.7	112
32	Micro-scale to nano-scale generators for energy harvesting: Self powered piezoelectric, triboelectric and hybrid devices. <i>Physics Reports</i> , 2019, 792, 1-33.	10.3	111
33	Optimal configurations of bistable piezo-composites for energy harvesting. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	110
34	Giant pyroelectric energy harvesting and a negative electrocaloric effect in multilayered nanostructures. <i>Energy and Environmental Science</i> , 2016, 9, 1335-1345.	15.6	109
35	Multi-sensor data fusion framework for CNC machining monitoring. <i>Mechanical Systems and Signal Processing</i> , 2016, 66-67, 505-520.	4.4	108
36	Ferroelectret materials and devices for energy harvesting applications. <i>Nano Energy</i> , 2019, 57, 118-140.	8.2	108

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37	Thermal Energy Harvesting Using Pyroelectric-Electrochemical Coupling in Ferroelectric Materials. <i>Joule</i> , 2020, 4, 301-309.	11.7	103
38	Bistable composite laminates: Effects of laminate composition on cured shape and response to thermal load. <i>Composite Structures</i> , 2010, 92, 2220-2225.	3.1	101
39	Characterisation and modelling of the cured shapes of arbitrary layup bistable composite laminates. <i>Composite Structures</i> , 2010, 92, 1694-1700.	3.1	101
40	Piezo-photoelectronic coupling effect of BaTiO <sub>3</sub> @TiO <sub>2</sub> nanowires for highly concentrated dye degradation. <i>Nano Energy</i> , 2022, 92, 106702.	8.2	100
41	Optimisation of interdigitated electrodes for piezoelectric actuators and active fibre composites. <i>Journal of Electroceramics</i> , 2006, 16, 263-269.	0.8	99
42	Understanding the effect of porosity on the polarisation-field response of ferroelectric materials. <i>Acta Materialia</i> , 2018, 154, 100-112.	3.8	97
43	Modelling and fabrication of porous sandwich layer barium titanate with improved piezoelectric energy harvesting figures of merit. <i>Acta Materialia</i> , 2017, 128, 207-217.	3.8	92
44	Optimum resistance analysis and experimental verification of nonlinear piezoelectric energy harvesting from human motions. <i>Energy</i> , 2017, 118, 221-230.	4.5	92
45	Electrical and Mechanical Self-Healing in High-Performance Dielectric Elastomer Actuator Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1808431.	7.8	92
46	Micropatterning of Flexible and Free Standing Polyvinylidene Difluoride (PVDF) Films for Enhanced Pyroelectric Energy Transformation. <i>Advanced Energy Materials</i> , 2015, 5, 1401891.	10.2	91
47	Mutual Insight on Ferroelectrics and Hybrid Halide Perovskites: A Platform for Future Multifunctional Energy Conversion. <i>Advanced Materials</i> , 2019, 31, e1807376.	11.1	91
48	Modelling the 'universal' dielectric response in heterogeneous materials using microstructural electrical networks. <i>Materials Science and Technology</i> , 2006, 22, 719-724.	0.8	90
49	Dynamic crosslinked rubbers for a green future: A material perspective. <i>Materials Science and Engineering Reports</i> , 2020, 141, 100561.	14.8	90
50	Piezoelectric Materials for Controlling Electro-Chemical Processes. <i>Nano-Micro Letters</i> , 2020, 12, 149.	14.4	87
51	Morphing and Shape Control using Unsymmetrical Composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2007, 18, 89-98.	1.4	83
52	Diagnosis of carbonation induced corrosion initiation and progression in reinforced concrete structures using piezo-impedance transducers. <i>Sensors and Actuators A: Physical</i> , 2016, 242, 79-91.	2.0	82
53	Challenges and Opportunities of Self-Healing Polymers and Devices for Extreme and Hostile Environments. <i>Advanced Materials</i> , 2021, 33, e2008052.	11.1	82
54	Graphene Ink Laminate Structures on Poly(vinylidene difluoride) (PVDF) for Pyroelectric Thermal Energy Harvesting and Waste Heat Recovery. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9161-9167.	4.0	80

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55	Composite dielectrics and conductors: simulation, characterization and design. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1295-1304.	1.3	78
56	Macro, micro and nanostructure of TiO <sub>2</sub> anodised films prepared in a fluorine-containing electrolyte. <i>Journal of Materials Science</i> , 2007, 42, 6729-6734.	1.7	77
57	Mechanical properties of titanium-based Ti-6Al-4V alloys manufactured by powder bed additive manufacture. <i>Materials Science and Technology</i> , 2017, 33, 138-148.	0.8	77
58	Recent Advances in Pyroelectric Materials and Applications. <i>Small</i> , 2021, 17, e2103960.	5.2	77
59	Significantly enhanced permittivity and energy density in dielectric composites with aligned BaTiO <sub>3</sub> lamellar structures. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3135-3144.	5.2	75
60	A modified figure of merit for piezoelectric energy harvesting. <i>Materials Letters</i> , 2015, 138, 243-246.	1.3	74
61	Methylammonium Lead Iodide Incorporated Poly(vinylidene fluoride) Nanofibers for Flexible Piezoelectric-Pyroelectric Nanogenerator. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27279-27287.	4.0	74
62	Piezoelectric sensitivity of PbTiO <sub>3</sub> -based ceramic/polymer composites with 0° and 3° connectivity. <i>Acta Materialia</i> , 2003, 51, 4965-4976.	3.8	72
63	Dielectric and piezoelectric properties of hydroxyapatite-BaTiO <sub>3</sub> composites. <i>Applied Physics Letters</i> , 2006, 89, 132906.	1.5	72
64	Porous ferroelectrics for energy harvesting applications. <i>European Physical Journal: Special Topics</i> , 2015, 224, 2949-2966.	1.2	72
65	Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. <i>Nano-Micro Letters</i> , 2021, 13, 156.	14.4	71
66	Triboelectric and Piezoelectric Nanogenerators for Future Soft Robots and Machines. <i>IScience</i> , 2020, 23, 101682.	1.9	70
67	A coupled photo-piezo-catalytic effect in a BST-PDMS porous foam for enhanced dye wastewater degradation. <i>Nano Energy</i> , 2020, 77, 105305.	8.2	70
68	An in vitro study of electrically active hydroxyapatite-barium titanate ceramics using Saos-2 cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1697-1708.	1.7	69
69	Polarization of hydroxyapatite: Influence on osteoblast cell proliferation. <i>Acta Biomaterialia</i> , 2010, 6, 1549-1554.	4.1	69
70	Experimental analysis of the dynamical response of energy harvesting devices based on bistable laminated plates. <i>Meccanica</i> , 2015, 50, 1961-1970.	1.2	69
71	Porous PZT Ceramics with Aligned Pore Channels for Energy Harvesting Applications. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2980-2983.	1.9	68
72	Non-linear control of a hydraulic piezo-valve using a generalised Prandtl-Ishlinskii hysteresis model. <i>Mechanical Systems and Signal Processing</i> , 2017, 82, 412-431.	4.4	68

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73	Wireless Monitoring of Small Strains in Intelligent Robots via a Joule Heating Effect in Stretchable Graphene-Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2020, 30, 1910809.	7.8	68
74	Breakdown in the Case for Materials with Giant Permittivity?. <i>ACS Energy Letters</i> , 2017, 2, 2264-2269.	8.8	67
75	Tailoring the electrical and thermal conductivity of multi-component and multi-phase polymer composites. <i>International Materials Reviews</i> , 2020, 65, 129-163.	9.4	67
76	Modern Piezoelectric Energy-Harvesting Materials. <i>Springer Series in Materials Science</i> , 2016, , .	0.4	67
77	Pyroelectric energy harvesting for water splitting. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23437-23445.	3.8	66
78	Modified energy harvesting figures of merit for stress- and strain-driven piezoelectric systems. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1537-1554.	1.2	66
79	Demonstration of Enhanced Piezo-Catalysis for Hydrogen Generation and Water Treatment at the Ferroelectric Curie Temperature. <i>IScience</i> , 2020, 23, 101095.	1.9	64
80	The Frequency Dependent Permittivity and AC Conductivity of Random Electrical Networks. <i>Ferroelectrics</i> , 2005, 319, 199-208.	0.3	63
81	Performance enhancement of nonlinear asymmetric bistable energy harvesting from harmonic, random and human motion excitations. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	63
82	Developments and Perspectives on Robust Nano- and Microstructured Binder-Free Electrodes for Bifunctional Water Electrolysis and Beyond. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	63
83	Effective elastic properties for unpoled barium titanate. <i>Journal of the European Ceramic Society</i> , 2007, 27, 3739-3743.	2.8	62
84	Modeling and characterization of piezoelectrically actuated bistable composites. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1737-1750.	1.7	62
85	High performance bifunctional electrocatalytic activity of a reduced graphene oxide-molybdenum oxide hybrid catalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13271-13279.	5.2	62
86	Significantly Enhanced Energy Storage Density by Modulating the Aspect Ratio of BaTiO <sub>3</sub> Nanofibers. <i>Scientific Reports</i> , 2017, 7, 45179.	1.6	61
87	Tailoring the geometric and electronic structure of tungsten oxide with manganese or vanadium doping toward highly efficient electrochemical and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6161-6172.	5.2	61
88	Freeze cast porous barium titanate for enhanced piezoelectric energy harvesting. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 225301.	1.3	59
89	A microscopy study of the effect of heat treatment on the structure and properties of anodised TiO <sub>2</sub> nanotubes. <i>Applied Surface Science</i> , 2010, 256, 2672-2679.	3.1	58
90	One-structure-based multi-effects coupled nanogenerators for flexible and self-powered multi-functional coupled sensor systems. <i>Nano Energy</i> , 2020, 71, 104632.	8.2	58

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91	Nonlinear dynamics of a bistable piezoelectric-composite energy harvester for broadband application. <i>European Physical Journal: Special Topics</i> , 2013, 222, 1553-1562.	1.2	57
92	An Explanation of the Photoinduced Giant Dielectric Constant of Lead Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1736-1740.	2.1	57
93	Porous ferroelectric materials for energy technologies: current status and future perspectives. <i>Energy and Environmental Science</i> , 2021, 14, 6158-6190.	15.6	56
94	Modelling of piezoelectrically actuated bistable composites. <i>Materials Letters</i> , 2011, 65, 1261-1263.	1.3	55
95	Sensitivity of bistable laminates to uncertainties in material properties, geometry and environmental conditions. <i>Composite Structures</i> , 2013, 102, 276-286.	3.1	55
96	Significantly improved energy density of BaTiO <sub>3</sub> nanocomposites by accurate interfacial tailoring using a novel rigid-fluoro-polymer. <i>Polymer Chemistry</i> , 2018, 9, 548-557.	1.9	55
97	Self-Healing Dielectric Elastomers for Damage-Tolerant Actuation and Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7595-7604.	4.0	55
98	Enhanced swing electromagnetic energy harvesting from human motion. <i>Energy</i> , 2021, 228, 120591.	4.5	54
99	Shape Memory Alloy-Piezoelectric Active Structures for Reversible Actuation of Bistable Composites. <i>AIAA Journal</i> , 2010, 48, 1265-1268.	1.5	53
100	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
101	Pore anisotropy in 3D piezoelectric composites. <i>Materials Chemistry and Physics</i> , 2002, 75, 45-49.	2.0	51
102	Characterisation of barium titanate-silver composites, part I: Microstructure and mechanical properties. <i>Journal of Materials Science</i> , 2006, 41, 3837-3843.	1.7	51
103	Virtual visual sensors and their application in structural health monitoring. <i>Structural Health Monitoring</i> , 2014, 13, 251-264.	4.3	51
104	Mechanical characterisation of polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. <i>Journal of Materials Science</i> , 2017, 52, 3862-3875.	1.7	51
105	Janus nanostructures for heterogeneous photocatalysis. <i>Applied Physics Reviews</i> , 2018, 5, 041111.	5.5	51
106	Intrinsic Tuning of Poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene)-Based Self-Healing Dielectric Elastomer Actuators with Enhanced Electromechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38438-38448.	4.0	51
107	Characterisation of actuation properties of piezoelectric bi-stable carbon-fibre laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 697-703.	3.8	50
108	Pyro-electrolytic water splitting for hydrogen generation. <i>Nano Energy</i> , 2019, 58, 183-191.	8.2	50

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109	Finite element modelling of dense and porous piezoceramic disc hydrophones. <i>Ultrasonics</i> , 2005, 43, 173-181.	2.1	48
110	An analysis of lead-free $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.915}(\text{Bi}_{0.5}\text{K}_{0.5})_{0.05}\text{Ba}_{0.02}\text{Sr}_{0.015}\text{TiO}_3$ ceramic for efficient refrigeration and thermal energy harvesting. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	48
111	Manufacture and characterization of high activity piezoelectric fibres. <i>Smart Materials and Structures</i> , 2006, 15, 295-301.	1.8	47
112	Self-Healing of Materials under High Electrical Stress. <i>Matter</i> , 2020, 3, 989-1008.	5.0	47
113	Nonlinear dynamics and performance enhancement of asymmetric potential bistable energy harvesters. <i>Nonlinear Dynamics</i> , 2018, 94, 1183-1194.	2.7	46
114	Recent Progress in Hybridized Nanogenerators for Energy Scavenging. <i>IScience</i> , 2020, 23, 101689.	1.9	46
115	Analytical modelling of 3-3 piezoelectric composites. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1463-1467.	2.8	45
116	Macro-porous $\text{Ti}_2\text{AlC}$ MAX-phase ceramics by the foam replication method. <i>Ceramics International</i> , 2015, 41, 12178-12185.	2.3	45
117	Improved heat transfer for pyroelectric energy harvesting applications using a thermal conductive network of aluminum nitride in $\text{PMN}\text{--}\text{PMS}\text{--}\text{PZT}$ ceramics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5040-5051.	5.2	45
118	High piezoelectric sensitivity and hydrostatic figures of merit in unidirectional porous ferroelectric ceramics fabricated by freeze casting. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4203-4211.	2.8	45
119	Enhanced photocurrent via ferro-pyro-phototronic effect in ferroelectric $\text{BaTiO}_3$ materials for a self-powered flexible photodetector system. <i>Nano Energy</i> , 2020, 77, 105152.	8.2	44
120	Soft Actuators and Robotic Devices for Rehabilitation and Assistance. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100140.	3.3	44
121	AC electrical properties of $\text{TiO}_2$ and Magn $\text{--}\text{O}$ phases, $\text{TiO}_2\text{--}\text{MgO}$ . <i>Solid State Ionics</i> , 2012, 229, 38-44.	1.3	43
122	Hydrogen storage in polymer-based processable microporous composites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18752-18761.	5.2	43
123	Highly Stretchable Capacitive Sensor with Printed Carbon Black Electrodes on Barium Titanate Elastomer Composite. <i>Sensors</i> , 2019, 19, 42.	2.1	43
124	Dynamic Polymer Networks: A New Avenue towards Sustainable and Advanced Soft Machines. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13725-13736.	7.2	43
125	Commercialisation of CMOS Integrated Circuit Technology in Multi-Electrode Arrays for Neuroscience and Cell-Based Biosensors. <i>Sensors</i> , 2011, 11, 4943-4971.	2.1	42
126	Manufacture and characterization of porous ferroelectrics for piezoelectric energy harvesting applications. <i>Ferroelectrics</i> , 2016, 498, 40-46.	0.3	41



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127	High Performance Capacitors Using BaTiO <sub>3</sub> Nanowires Engineered by Rigid Liquid-crystalline Polymers. Journal of Physical Chemistry C, 2017, 121, 20075-20083.	1.5	41
128	Characterisation of ferroelectric-calcium phosphate composites and ceramics. Journal of the European Ceramic Society, 2007, 27, 4187-4190.	2.8	40
129	Complex response of a bistable laminated plate: Multiscale entropy analysis. European Physical Journal Plus, 2014, 129, 1.	1.2	40
130	Intrinsically Tuning the Electromechanical Properties of Elastomeric Dielectrics: A Chemistry Perspective. Macromolecular Rapid Communications, 2018, 39, e1800340.	2.0	40
131	Piezoelectric catalysis for efficient reduction of CO <sub>2</sub> using lead-free ferroelectric particulates. Nano Energy, 2022, 95, 107032.	8.2	40
132	Dielectric and piezoelectric properties of porous lead-free 0.5Ba(Ca <sub>0.8</sub> Zr <sub>0.2</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ceramics. Materials Research Bulletin, 2019, 112, 426-431.	2.7	39
133	Electric field distribution in porous piezoelectric materials during polarization. Acta Materialia, 2019, 173, 332-341.	3.8	39
134	Polarisation tuneable piezo-catalytic activity of Nb-doped PZT with low Curie temperature for efficient CO <sub>2</sub> reduction and H <sub>2</sub> generation. Nanoscale Advances, 2021, 3, 1362-1374.	2.2	39
135	The formation of TiC/Al <sub>2</sub> O <sub>3</sub> microstructures by a self-propagating high-temperature synthesis reaction. Journal of Materials Science, 1996, 31, 3791-3803.	1.7	37
136	Characterisation of barium titanate-silver composites part II: Electrical properties. Journal of Materials Science, 2006, 41, 3845-3851.	1.7	37
137	Manufacturing and characterization of Magn@li phase conductive fibres. Journal of Materials Chemistry A, 2014, 2, 8328-8333.	5.2	37
138	Photocatalytic activity of electrophoretically deposited (EPD) TiO <sub>2</sub> coatings. Journal of Materials Science, 2015, 50, 4822-4835.	1.7	37
139	Aligned macroporous TiO <sub>2</sub> /chitosan/reduced graphene oxide (rGO) composites for photocatalytic applications. Applied Surface Science, 2017, 424, 170-176.	3.1	37
140	Flexible pillar-base structured piezocomposite with aligned porosity for piezoelectric energy harvesting. Nano Energy, 2021, 88, 106278.	8.2	37
141	Thermodynamic predictions for the manufacture of Ti <sub>2</sub> AlC MAX-phase ceramic by combustion synthesis. Journal of Alloys and Compounds, 2014, 602, 72-77.	2.8	36
142	Environmental performance of nano-structured Ca(OH) <sub>2</sub> /TiO <sub>2</sub> photocatalytic coatings for buildings. Building and Environment, 2015, 92, 734-742.	3.0	36
143	Wind-driven pyroelectric energy harvesting device. Smart Materials and Structures, 2016, 25, 125023.	1.8	36
144	A hybrid strain and thermal energy harvester based on an infra-red sensitive Er <sup>3+</sup> modified poly(vinylidene fluoride) ferroelectret structure. Scientific Reports, 2017, 7, 16703.	1.6	36

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145	Carbon fibre based flexible piezoresistive composites to empower inherent sensing capabilities for soft actuators. <i>Soft Matter</i> , 2019, 15, 8001-8011.	1.2	36
146	A stacked electromagnetic energy harvester with frequency up-conversion for swing motion. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	36
147	2D Nanomaterials for Effective Energy Scavenging. <i>Nano-Micro Letters</i> , 2021, 13, 82.	14.4	36
148	Interface charge density modulation of a lamellar-like spatially separated Ni <sub>9</sub> S <sub>8</sub> nanosheet/Nb <sub>2</sub> O <sub>5</sub> nanobelt heterostructure catalyst coupled with nitrogen and metal (M=Co, Fe, or Cu) atoms to accelerate acidic and alkaline hydrogen evolution reactions. <i>Chemical Engineering Journal</i> , 2022, 431, 134073.	6.6	36
149	Microstructural modelling of the polarization and properties of porous ferroelectrics. <i>Smart Materials and Structures</i> , 2011, 20, 085002.	1.8	35
150	A novel piezohydraulic aerospace servovalve. Part 1: design and modelling. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2013, 227, 371-389.	0.7	35
151	Hybrid Synthetic Receptors on MOSFET Devices for Detection of Prostate Specific Antigen in Human Plasma. <i>Analytical Chemistry</i> , 2016, 88, 11486-11490.	3.2	35
152	Using a novel rigid-fluoride polymer to control the interfacial thickness of graphene and tailor the dielectric behavior of poly(vinylidene fluoride-trifluoroethylene-chlorotrifluoroethylene) nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2826-2837.	1.3	35
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