

Shashank Priya

List of Publications by Citations

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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.

379
papers

14,517
citations

59
h-index

105
g-index

412
ext. papers

17,202
ext. citations

7.1
avg, IF

7.16
L-index

#	Paper	IF	Citations
379	High efficiency planar-type perovskite solar cells with negligible hysteresis using EDTA-complexed SnO. <i>Nature Communications</i> , 2018 , 9, 3239	17.4	721
378	Advances in energy harvesting using low profile piezoelectric transducers. <i>Journal of Electroceramics</i> , 2007 , 19, 167-184	1.5	604
377	Magnetolectric Effect in Composites of Magnetostrictive and Piezoelectric Materials 2002 , 8, 107-119		560
376	Origin of J-V Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 905-17	6.4	530
375	Record Efficiency Stable Flexible Perovskite Solar Cell Using Effective Additive Assistant Strategy. <i>Advanced Materials</i> , 2018 , 30, e1801418	24	286
374	Impact of Capacitive Effect and Ion Migration on the Hysteretic Behavior of Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4693-700	6.4	285
373	Status and Perspectives of Multiferroic Magnetolectric Composite Materials and Applications. <i>Actuators</i> , 2016 , 5, 9	2.4	285
372	Improved Phase Stability of Formamidinium Lead Triiodide Perovskite by Strain Relaxation. <i>ACS Energy Letters</i> , 2016 , 1, 1014-1020	20.1	244
371	Modeling of electric energy harvesting using piezoelectric windmill. <i>Applied Physics Letters</i> , 2005 , 87, 184101	3.4	235
370	Effect of the Magnetostrictive Layer on Magnetolectric Properties in Lead Zirconate Titanate/Terfenol-D Laminate Composites. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2905-2908 ^{3.8}		233
369	Piezoelectric MEMS for energy harvesting. <i>MRS Bulletin</i> , 2012 , 37, 1039-1050	3.2	227
368	Harvesting electrical energy from carbon nanotube yarn twist. <i>Science</i> , 2017 , 357, 773-778	33.3	214
367	A biomimetic robotic jellyfish (Robojelly) actuated by shape memory alloy composite actuators. <i>Bioinspiration and Biomimetics</i> , 2011 , 6, 036004	2.6	194
366	Multimodal Energy Harvesting System: Piezoelectric and Electromagnetic. <i>Journal of Intelligent Material Systems and Structures</i> , 2009 , 20, 625-632	2.3	185
365	Recent Advances in Flexible Perovskite Solar Cells: Fabrication and Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4466-4483	16.4	183
364	Quasi-Two-Dimensional Halide Perovskite Single Crystal Photodetector. <i>ACS Nano</i> , 2018 , 12, 4919-4929	16.7	178
363	A Review on Piezoelectric Energy Harvesting: Materials, Methods, and Circuits. <i>Energy Harvesting and Systems</i> , 2019 , 4, 3-39	4.4	177

362	Recent advancements in magnetoelectric particulate and laminate composites. <i>Journal of Electroceramics</i> , 2007 , 19, 149-166	1.5	173
361	Three-dimensional printing of piezoelectric materials with designed anisotropy and directional response. <i>Nature Materials</i> , 2019 , 18, 234-241	27	165
360	Piezoelectric Windmill: A Novel Solution to Remote Sensing. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L104-L107	1.4	154
359	Ubiquitous magneto-mechano-electric generator. <i>Energy and Environmental Science</i> , 2015 , 8, 2402-2408	35.4	129
358	Consideration of impedance matching techniques for efficient piezoelectric energy harvesting. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1851-9	3.2	129
357	Criterion for material selection in design of bulk piezoelectric energy harvesters. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 2610-2	3.2	128
356	Room temperature fabrication of CH ₃ NH ₃ PbBr ₃ by anti-solvent assisted crystallization approach for perovskite solar cells with fast response and small J _V hysteresis. <i>Nano Energy</i> , 2015 , 17, 269-278	17.1	124
355	Synthesis mechanism of grain-oriented lead-free piezoelectric Na _{0.5} Bi _{0.5} TiO ₃ BaTiO ₃ ceramics with giant piezoelectric response. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2102	7.1	117
354	Realization of high-energy density polycrystalline piezoelectric ceramics. <i>Applied Physics Letters</i> , 2006 , 88, 032903	3.4	114
353	Materials for energy harvesting: At the forefront of a new wave. <i>MRS Bulletin</i> , 2018 , 43, 176-180	3.2	113
352	Stable Efficiency Exceeding 20.6% for Inverted Perovskite Solar Cells through Polymer-Optimized PCBM Electron-Transport Layers. <i>Nano Letters</i> , 2019 , 19, 3313-3320	11.5	111
351	Laser Irradiation of Metal Oxide Films and Nanostructures: Applications and Advances. <i>Advanced Materials</i> , 2018 , 30, e1705148	24	110
350	Passive energy recapture in jellyfish contributes to propulsive advantage over other metazoans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17904-9	11.5	99
349	High-Efficiency Perovskite Solar Cells with Imidazolium-Based Ionic Liquid for Surface Passivation and Charge Transport. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4238-4244	16.4	98
348	Ferroelectric solar cells based on inorganic/organic hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7699-7705	13	95
347	Interface band structure engineering by ferroelectric polarization in perovskite solar cells. <i>Nano Energy</i> , 2015 , 13, 582-591	17.1	93
346	A Review on Low-Grade Thermal Energy Harvesting: Materials, Methods and Devices. <i>Materials</i> , 2018 , 11,	3.5	93
345	Giant piezoelectric voltage coefficient in grain-oriented modified PbTiO material. <i>Nature Communications</i> , 2016 , 7, 13089	17.4	90

344	Ultra-high performance wearable thermoelectric coolers with less materials. <i>Nature Communications</i> , 2019 , 10, 1765	17.4	84
343	Tunable self-biased magnetoelectric response in homogenous laminates. <i>Applied Physics Letters</i> , 2012 , 101, 232905	3.4	84
342	Room-temperature magnetoelectric coupling in single-phase BaTiO ₃ -BiFeO ₃ system. <i>Journal of Applied Physics</i> , 2013 , 113, 144101	2.5	82
341	Effect of ZnO and CuO on the Sintering Temperature and Piezoelectric Properties of a Hard Piezoelectric Ceramic. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 921-925	3.8	82
340	Self-biased magnetoelectric response in three-phase laminates. <i>Journal of Applied Physics</i> , 2010 , 108, 093706	2.5	76
339	. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 1226-1234	2.5	75
338	Giant strain with ultra-low hysteresis and high temperature stability in grain oriented lead-free K _{0.5} Bi _{0.5} TiO ₃ -BaTiO ₃ -Na _{0.5} Bi _{0.5} TiO ₃ piezoelectric materials. <i>Scientific Reports</i> , 2015 , 5, 8595	4.9	73
337	Sintering Behavior of Lead-Free (K,Na)NbO ₃ -Based Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2033-2038	3.8	73
336	Enhanced piezoelectricity and nature of electric-field induced structural phase transformation in textured lead-free piezoelectric Na _{0.5} Bi _{0.5} TiO ₃ -BaTiO ₃ ceramics. <i>Applied Physics Letters</i> , 2012 , 100, 172906	3.4	71
335	Giant energy density in [001]-textured Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbZrO ₃ -PbTiO ₃ piezoelectric ceramics. <i>Applied Physics Letters</i> , 2013 , 102, 042903	3.4	71
334	Piezoelectric and magnetoelectric thick films for fabricating power sources in wireless sensor nodes. <i>Sensors</i> , 2009 , 9, 6362-84	3.8	71
333	Isothermally crystallized perovskites at room-temperature. <i>Energy and Environmental Science</i> , 2020 , 13, 3412-3422	35.4	71
332	The Controlling Mechanism for Potential Loss in CH ₃ NH ₃ PbBr ₃ Hybrid Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 424-430	20.1	70
331	High-Energy Density Ceramic Composition in the System Pb(Zr,Ti)O ₃ Bb[(Zn,Ni) _{1/3} Nb _{2/3}]O ₃ . <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3147-3156	3.8	70
330	Recent progress in fundamental understanding of halide perovskite semiconductors. <i>Progress in Materials Science</i> , 2019 , 106, 100580	42.2	69
329	Origin of high piezoelectric response in A-site disordered morphotropic phase boundary composition of lead-free piezoelectric 0.93(Na _{0.5} Bi _{0.5})TiO ₃ 0.07BaTiO ₃ . <i>Journal of Applied Physics</i> , 2013 , 113, 114101	2.5	69
328	Dual-phase self-biased magnetoelectric energy harvester. <i>Applied Physics Letters</i> , 2013 , 103, 192909	3.4	68
327	Effect of poling on nanodomains and nanoscale structure in A-site disordered lead-free piezoelectric Na _{0.5} Bi _{0.5} TiO ₃ BaTiO ₃ . <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8423-8431	7.1	67

326	Identification and Effect of Secondary Phase in MnO ₂ -Doped 0.8Pb(Zr _{0.52} Ti _{0.48})O ₃ 0.2Pb(Zn _{1/3} Nb _{2/3})O ₃ Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3953-3959	3.8	65
325	Vapor-fumigation for record efficiency two-dimensional perovskite solar cells with superior stability. <i>Energy and Environmental Science</i> , 2018 , 11, 3349-3357	35.4	65
324	Giant magnetolectric effect in sintered multilayered composite structures. <i>Journal of Applied Physics</i> , 2008 , 104, 044103	2.5	64
323	Giant self-biased magnetolectric coupling in co-fired textured layered composites. <i>Applied Physics Letters</i> , 2013 , 102, 052907	3.4	63
322	Exceeding milli-watt powering magneto-mechano-electric generator for standalone-powered electronics. <i>Energy and Environmental Science</i> , 2018 , 11, 818-829	35.4	62
321	Direct and converse effect in magnetolectric laminate composites. <i>Applied Physics Letters</i> , 2011 , 98, 232904	3.4	59
320	Effect of piezoelectric grain size on magnetolectric coefficient of Pb(Zr _{0.52} Ti _{0.48})O ₃ Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ particulate composites. <i>Journal of Materials Science</i> , 2008 , 43, 3560-3568	4.3	59
319	Electromechanical behavior of [001]-textured Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ ceramics. <i>Applied Physics Letters</i> , 2012 , 100, 192905	3.4	58
318	Stress-controlled Pb(Zr _{0.52} Ti _{0.48})O ₃ thick films by thermal expansion mismatch between substrate and Pb(Zr _{0.52} Ti _{0.48})O ₃ film. <i>Journal of Applied Physics</i> , 2011 , 110, 124101	2.5	58
317	Correlation between Phase Transitions and Piezoelectric Properties in Lead-Free (K,Na,Li)NbO ₃ BaTiO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 8880-8883	1.4	57
316	Templated Grain Growth of <001>-Textured 0.675Pb(Mg _{1/3} Nb _{2/3})O ₃ 0.325PbTiO ₃ Piezoelectric Ceramics for Magnetic Field Sensors. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1784-1793	3.8	56
315	Characterization of Mechanical and Electrical Properties of Epoxy-Glass Microballoon Syntactic Composites. <i>Ferroelectrics</i> , 2006 , 345, 1-12	0.6	53
314	Small-scale wind energy portable turbine (SWEPT). <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013 , 116, 21-31	3.7	51
313	Localized Electron Density Engineering for Stabilized B- CsSnI_3 -Based Perovskite Solar Cells with Efficiencies >10%. <i>ACS Energy Letters</i> , 1480-1489	20.1	50
312	Anisotropic self-biased dual-phase low frequency magneto-mechano-electric energy harvesters with giant power densities. <i>APL Materials</i> , 2014 , 2, 046102	5.7	49
311	Self-Biased Magnetolectric Composites: An Overview and Future Perspectives. <i>Energy Harvesting and Systems</i> , 2016 , 3, 1-42	4.4	48
310	Multiple cell configuration electromagnetic vibration energy harvester. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 295501	3	48
309	Phonon anomalies and phonon-spin coupling in oriented PbFe _{0.5} Nb _{0.5} O ₃ thin films. <i>Physical Review B</i> , 2011 , 83,	3.3	48

308	Magnetoelectric properties of the lead-free cofired BaTiO ₃ (Ni _{0.8} Zn _{0.2})Fe ₂ O ₄ bilayer composite. <i>Applied Physics Letters</i> , 2006 , 89, 152911	3.4	48
307	Distinct conducting layer edge states in two-dimensional (2D) halide perovskite. <i>Science Advances</i> , 2019 , 5, eaau3241	14.3	47
306	Piezoelectric microgenerators--current status and challenges. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1555-68	3.2	47
305	Ferroelectric properties and dynamic scaling of <100> oriented (K _{0.5} Na _{0.5})NbO ₃ single crystals. <i>Applied Physics Letters</i> , 2011 , 98, 242906	3.4	46
304	High Power Magnetic Field Energy Harvesting through Amplified Magneto-Mechanical Vibration. <i>Advanced Energy Materials</i> , 2018 , 8, 1703313	21.8	45
303	High magnetic field sensitivity in Pb(Zr,Ti)O ₃ /Pb(Mg _{1/3} Nb _{2/3})O ₃ single crystal/Terfenol-D/Metglas magnetoelectric laminate composites. <i>Journal of Applied Physics</i> , 2010 , 107, 094109	2.5	45
302	Magnetoelectric Interactions in Lead-Based and Lead-Free Composites. <i>Materials</i> , 2011 , 4, 651-702	3.5	45
301	A review on design and performance of thermomagnetic devices. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 33-44	16.2	43
300	Fe-substituted 0.92Pb(Zn _{1/3} Nb _{2/3})O ₃ /0.08PbTiO ₃ single crystals: A hard piezocrystal. <i>Applied Physics Letters</i> , 2002 , 81, 2430-2432	3.4	43
299	Efficient Production of Phosphorene Nanosheets via Shear Stress Mediated Exfoliation for Low-Temperature Perovskite Solar Cells. <i>Small Methods</i> , 2019 , 3, 1800521	12.8	42
298	Modeling and analysis of the effect of thermal losses on thermoelectric generator performance using effective properties. <i>Applied Energy</i> , 2018 , 211, 987-996	10.7	42
297	Multilayered Unipoled Piezoelectric Transformers. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 3503-3510	3.5	42
296	Energy harvesting and strain sensing in smart tire for next generation autonomous vehicles. <i>Applied Energy</i> , 2018 , 232, 312-322	10.7	42
295	Ambient-Air-Stable Lead-Free CsSnI ₃ Solar Cells with Greater than 7.5% Efficiency. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4319-4328	16.4	41
294	Two-dimensional concentrated-stress low-frequency piezoelectric vibration energy harvesters. <i>Applied Physics Letters</i> , 2015 , 107, 093901	3.4	40
293	Highly-Stable Organo-Lead Halide Perovskites Synthesized Through Green Self-Assembly Process. <i>Solar Rrl</i> , 2018 , 2, 1800052	7.1	39
292	Importance of structural irregularity on dielectric loss in (1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ /xPbTiO ₃ crystals. <i>Applied Physics Letters</i> , 2002 , 80, 4217-4219	3.4	39
291	Enhanced Thermoelectric Performance of Yb-Single-Filled Skutterudite by Ultralow Thermal Conductivity. <i>Chemistry of Materials</i> , 2019 , 31, 862-872	9.6	39

290	Lead-free piezoelectric materials and composites for high power density energy harvesting. <i>Journal of Materials Research</i> , 2018 , 33, 2235-2263	2.5	38
289	Broadband dual phase energy harvester: Vibration and magnetic field. <i>Applied Energy</i> , 2018 , 225, 1132-1147	4.7	37
288	Piezoelectric properties and temperature stability of Mn-doped Pb(Mg _{1/3} Nb _{2/3})-PbZrO ₃ -PbTiO ₃ textured ceramics. <i>Applied Physics Letters</i> , 2012 , 100, 132908	3.4	37
287	Cofired Magnetolectric Laminate Composites. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1087-1095	3.0	37
286	Thermo-Magneto-Electric Generator Arrays for Active Heat Recovery System. <i>Scientific Reports</i> , 2017 , 7, 41383	4.9	36
285	Design and fabrication of bimorph transducer for optimal vibration energy harvesting. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1513-23	3.2	35
284	Design and characterization of broadband magnetolectric sensor. <i>Journal of Applied Physics</i> , 2009 , 105, 094111	2.5	35
283	Dielectric and piezoelectric properties of (1-x)(Na _{0.5} K _{0.5})NbO ₃ -BaTiO ₃ ceramics. <i>Journal of Materials Science</i> , 2008 , 43, 6784-6797	4.3	35
282	Lead-free epitaxial ferroelectric material integration on semiconducting (100) Nb-doped SrTiO ₃ for low-power non-volatile memory and efficient ultraviolet ray detection. <i>Scientific Reports</i> , 2015 , 5, 12415	4.9	34
281	Giant Magnetolectric Coefficient in 3 μ m Nanocomposite Thick Films. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 080204	1.4	34
280	Nonlead perovskite materials: Ba(Li _{1/4} Nb _{3/4})O ₃ and Ba(Cu _{1/3} Nb _{2/3})O ₃ . <i>Journal of Applied Physics</i> , 2003 , 94, 1171-1177	2.5	34
279	28.3%-efficiency perovskite/silicon tandem solar cell by optimal transparent electrode for high efficient semitransparent top cell. <i>Nano Energy</i> , 2021 , 84, 105934	17.1	34
278	X-ray photoelectron spectroscopy analysis and band offset determination of CeO ₂ deposited on epitaxial (100), (110), and (111)Ge. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 011217	1.3	33
277	Mono-crystalline Perovskite Photovoltaics toward Ultrahigh Efficiency?. <i>Joule</i> , 2019 , 3, 311-316	27.8	33
276	Integration of lead-free ferroelectric on HfO ₂ /Si (100) for high performance non-volatile memory applications. <i>Scientific Reports</i> , 2015 , 5, 8494	4.9	32
275	Upshift of phase transition temperature in nanostructured PbTiO ₃ thick film for high temperature applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11980-7	9.5	32
274	Defect and adsorbate induced ferromagnetic spin-order in magnesium oxide nanocrystallites. <i>Applied Physics Letters</i> , 2012 , 100, 192404	3.4	32
273	Magnetolectric properties of core-shell particulate nanocomposites. <i>Journal of Applied Physics</i> , 2008 , 104, 104111	2.5	32

272	Unleashing the Full Potential of Magnetoelectric Coupling in Film Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1605688	24	31
271	A modeling comparison between a two-stage and three-stage cascaded thermoelectric generator. <i>Journal of Power Sources</i> , 2017 , 365, 266-272	8.9	31
270	Enhanced off-resonance magnetoelectric response in laser annealed PZT thick film grown on magnetostrictive amorphous metal substrate. <i>Applied Physics Letters</i> , 2015 , 107, 012904	3.4	31
269	Enhanced piezoelectric performance from carbon fluoropolymer nanocomposites. <i>Journal of Applied Physics</i> , 2012 , 112, 124104	2.5	31
268	3D printed graphene-based self-powered strain sensors for smart tires in autonomous vehicles. <i>Nature Communications</i> , 2020 , 11, 5392	17.4	31
267	All electro spray printed perovskite solar cells. <i>Nano Energy</i> , 2018 , 53, 440-448	17.1	31
266	Multifunctional and Flexible Polymeric Nanocomposite Films with Improved Ferroelectric and Piezoelectric Properties for Energy Generation Devices. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6364-6374	6.1	30
265	Local structure and piezoelectric instability in lead-free $(1-x)\text{BaTiO}_3-x\text{A}(\text{Cu}_{1/3}\text{Nb}_{2/3})\text{O}_3$ (A = Sr, Ca, Ba) solid solutions. <i>RSC Advances</i> , 2014 , 4, 1283-1292	3.7	30
264	Discovery and ramifications of incidental Magn η phase generation and release from industrial coal-burning. <i>Nature Communications</i> , 2017 , 8, 194	17.4	30
263	A jellyfish-inspired jet propulsion robot actuated by an iris mechanism. <i>Smart Materials and Structures</i> , 2013 , 22, 094021	3.4	30
262	Twelve Degree of Freedom Baby Humanoid Head Using Shape Memory Alloy Actuators. <i>Journal of Mechanisms and Robotics</i> , 2011 , 3,	2.2	30
261	Enhanced domain contribution to ferroelectric properties in freestanding thick films. <i>Journal of Applied Physics</i> , 2009 , 106, 024108	2.5	30
260	Self-Bias Response of Lead-Free $(1-x)[0.948\text{K}0.5\text{Na}0.5\text{NbO}_3]_{0.052}\text{LiSbO}_3]_{0.048}\text{Ni}0.8\text{Zn}0.2\text{Fe}_2\text{O}_4$ Nickel Magnetoelectric Laminate Composites. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3889-3899	3.8	29
259	Induction of combinatory characteristics by relaxor modification of $\text{Pb}(\text{Zr}_{0.5}\text{Ti}_{0.5})\text{O}_3$. <i>Applied Physics Letters</i> , 2003 , 83, 5020-5022	3.4	29
258	Nonionic Sc_3 Dopant for Efficient and Stable Halide Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1852-1861	20.1	28
257	Fullerene Polymer Complex Inducing Dipole Electric Field for Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1804419	15.6	28
256	Progress in Dual (Piezoelectric-Magnetostrictive) Phase Magnetoelectric Sintered Composites. <i>Advances in Condensed Matter Physics</i> , 2012 , 2012, 1-29	1	28
255	A generalized rule for large piezoelectric response in perovskite oxide ceramics and its application for design of lead-free compositions. <i>Journal of Applied Physics</i> , 2009 , 105, 114108	2.5	28

254	Modeling of magnetoelectric effect in polycrystalline multiferroic laminates influenced by the orientations of applied electric/magnetic fields. <i>Journal of Applied Physics</i> , 2009 , 105, 083914	2.5	28
253	Piezoelectric Actuation and Sensing for Facial Robotics. <i>Ferroelectrics</i> , 2006 , 345, 13-25	0.6	28
252	Ultrahigh Durability Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 1251-1259	11.5	27
251	High performance thermoelectric module through isotype bulk heterojunction engineering of skutterudite materials. <i>Nano Energy</i> , 2019 , 66, 104193	17.1	27
250	Optimization of segmented thermoelectric generator using Taguchi and ANOVA techniques. <i>Scientific Reports</i> , 2017 , 7, 16746	4.9	27
249	Two-Phase Coexistence in Single-Grain BaTiO ₃ (Mn _{0.5} Zn _{0.5})Fe ₂ O ₄ Composites, Via Solid-State Reaction. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1552-1555	3.8	27
248	Piezoelectric transformer based ultrahigh sensitivity magnetic field sensor. <i>Applied Physics Letters</i> , 2006 , 89, 152908	3.4	27
247	Enhanced Performance and Stability in DNA-Perovskite Heterostructure-Based Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2646-2655	20.1	26
246	Decoupled phononic-electronic transport in multi-phase n-type half-Heusler nanocomposites enabling efficient high temperature power generation. <i>Materials Today</i> , 2020 , 36, 63-72	21.8	26
245	Theoretical and experimental correlation of mechanical wave formation on beams. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 1939-1948	2.3	26
244	Structure-performance relationships for cantilever-type piezoelectric energy harvesters. <i>Journal of Applied Physics</i> , 2014 , 115, 204108	2.5	26
243	Fabrication of Lead-Free (CH ₃ NH ₃) ⁺ Bi ³⁺ Perovskite Photovoltaics in Ethanol Solvent. <i>ChemSusChem</i> , 2017 , 10, 3994-3998	8.3	26
242	Low-grade waste heat recovery using the reverse magnetocaloric effect. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1899-1908	5.8	26
241	Role of Secondary Phase in High Power Piezoelectric PMN-PZT Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4138-4141	3.8	26
240	Effect of intensive and extensive loss factors on the dynamic response of magnetoelectric laminates. <i>Applied Physics Letters</i> , 2010 , 97, 182902	3.4	26
239	Multifunctional nanostructured materials for next generation photovoltaics. <i>Nano Energy</i> , 2020 , 70, 104480	17.1	25
238	Floor Tile Energy Harvester for Self-Powered Wireless Occupancy Sensing. <i>Energy Harvesting and Systems</i> , 2016 , 3, 43-60	4.4	25
237	Thermal management of thermoacoustic sound projectors using a free-standing carbon nanotube aerogel sheet as a heat source. <i>Nanotechnology</i> , 2014 , 25, 405704	3.4	25

- 236 Multi-physics model of a thermo-magnetic energy harvester. *Smart Materials and Structures*, **2013**, 22, 055005 3.4 25
- 235 Tunable features of magnetoelectric transformers. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 1124-7 3.2 25
- 234 High Power Density Body Heat Energy Harvesting. *ACS Applied Materials & Interfaces*, **2019**, 11, 40107-40113 3.5 24
- 233 High Power Density Levitation-Induced Vibration Energy Harvester. *Energy Harvesting and Systems*, **2014**, 1, 79-88 4.4 24
- 232 Fundamental limitation to the magnitude of piezoelectric response of <001>pc textured K_{0.5}Na_{0.5}NbO₃ ceramic. *Applied Physics Letters*, **2014**, 104, 172902 3.4 24
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