

Shashank Priya

List of Publications by Year in Descending Order

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

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	Probe of the excitonic transitions and lifetimes in quasi-2D organic/inorganic halide perovskites. <i>AIP Advances</i> , 2022 , 12, 015114	1.5	
378	Improved thermoacoustic sound projectors by vibration mode modification. <i>Journal of Sound and Vibration</i> , 2022 , 524, 116753	3.9	1
377	Overcoming Shockley-Queisser limit using halide perovskite platform?. <i>Joule</i> , 2022 ,	27.8	7
376	Polarization Fatigue Mechanism of High-Power Textured Piezoelectric Ceramics. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 1047-1056	4	
375	Ultrahigh Piezoelectric Performance through Synergistic Compositional and Microstructural Engineering.. <i>Advanced Science</i> , 2022 , e2105715	13.6	5
374	Thermoelectric coolers for high-power-density 3D electronics heat management. <i>Applied Physics Letters</i> , 2022 , 120, 164101	3.4	1
373	High Performance High-power Textured Mn/Cu-doped PIN-PMN-PT Ceramics. <i>Acta Materialia</i> , 2022 , 118015	8.4	0
372	A Comprehensive Study on Magnetolectric Transducers for Wireless Power Transfer Using Low-Frequency Magnetic Fields. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021 , 15, 1079-1092	5.1	1
371	Bio-inspired strategies for next-generation perovskite solar mobile power sources. <i>Chemical Society Reviews</i> , 2021 , 50, 12915-12984	58.5	2
370	Enhancement of pyroelectricity in Mn-doped (011) $71\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{PbZrO}_3\text{PbTiO}_3$ single crystals. <i>Applied Physics Letters</i> , 2021 , 119, 152903	3.4	1
369	Conformal High-Power-Density Half-Heusler Thermoelectric Modules: A Pathway toward Practical Power Generators. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53935-53944	9.5	3
368	Universal Multienergy Harvester Architecture. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 324-331	9.5	1
367	Fully Inorganic CsSnI ₃ -Based Solar Cells with >6% Efficiency and Enhanced Stability Enabled by Mixed Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1345-1352	9.5	11
366	Design and development of high-power piezoelectric ceramics through integration of crystallographic texturing and acceptor-doping. <i>Acta Materialia</i> , 2021 , 206, 116610	8.4	12
365	Distributed and localized cooling with thermoelectrics. <i>Joule</i> , 2021 , 5, 748-751	27.8	9
364	Progresses on Novel B-Site Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2021 , 9, 2100261	8.1	2
363	Understanding the low frequency response of carbon nanotube thermoacoustic projectors. <i>Journal of Sound and Vibration</i> , 2021 , 498, 115940	3.9	

362	High-performance half-Heusler thermoelectric devices through direct bonding technique. <i>Journal of Power Sources</i> , 2021 , 493, 229695	8.9	13
361	Strain-relaxed tetragonal MAPbI ₃ results in efficient mesoporous solar cells. <i>Nano Energy</i> , 2021 , 83, 105788	17.8	17
360	Antisolvent- and Annealing-Free Deposition for Highly Stable Efficient Perovskite Solar Cells via Modified ZnO. <i>Advanced Science</i> , 2021 , 8, 2002860	13.6	15
359	Optical properties of Pb _{0.52} Zr _{0.48} TiO ₃ nanorod arrays: second harmonic generation and multiphoton carrier dynamics. <i>JPhys Photonics</i> , 2021 , 3, 034012	2.5	
358	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
357	High-Power Magnetoelectric Voltage Tunable Inductors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 5355-5365	8.9	5
356	All Electro Spray Printing of Carbon-Based Cost-Effective Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2006803	15.6	5
355	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
354	Self-Powered Red/UV Narrowband Photodetector by Unbalanced Charge Carrier Transport Strategy. <i>Advanced Functional Materials</i> , 2021 , 31, 2007016	15.6	18
353	Enhanced pyroelectric response from domain-engineered lead-free (K _{0.5} Bi _{0.5} TiO ₃ -BaTiO ₃)-Na _{0.5} Bi _{0.5} TiO ₃ ferroelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2524-2532	6	2
352	High-Efficiency Perovskite Solar Cells with Imidazolium-Based Ionic Liquid for Surface Passivation and Charge Transport. <i>Angewandte Chemie</i> , 2021 , 133, 4284-4290	3.6	8
351	Small-Scale Energy Harvesting Devices for Smart Electronics 2021 , 391-425		
350	A New Method for Evaluation of the Complex Material Coefficients of Piezoelectric Ceramics in the Radial Vibration Modes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 3446-3460	3.2	1
349	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
348	One-key-reset recycling of whole perovskite solar cell. <i>Matter</i> , 2021 , 4, 2522-2541	12.7	10
347	Electrocaloric Performance of Multilayer Ceramic Chips: Effect of Geometric Structure Induced Internal Stress. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38508-38516	9.5	0
346	Cost-Effective High-Performance Charge-Carrier-Transport-Layer-Free Perovskite Solar Cells Achieved by Suppressing Ion Migration. <i>ACS Energy Letters</i> , 2021 , 6, 3044-3052	20.1	16
345	Composition and strain engineered AgNbO ₃ -based multilayer capacitors for ultra-high energy storage capacity. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9655-9664	13	10

344	22% Efficiency Inverted Perovskite Photovoltaic Cell Using Cation-Doped Brookite TiO Top Buffer. <i>Advanced Science</i> , 2020 , 7, 2001285	13.6	17
343	High performance high power textured piezoceramics. <i>Applied Physics Letters</i> , 2020 , 116, 252901	3.4	5
342	Automatic resonance tuning mechanism for ultra-wide bandwidth mechanical energy harvesting. <i>Nano Energy</i> , 2020 , 77, 104986	17.1	14
341	A Nonionic and Low-Entropic MA(MMA) _n PbI ₃ -Ink for Fast Crystallization of Perovskite Thin Films. <i>Joule</i> , 2020 , 4, 615-630	27.8	23
340	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
339	Electric field control of magnetic susceptibility in laminate magnetostrictive/piezoelectric composites: Phase-field simulation and theoretical model. <i>Physical Review B</i> , 2020 , 101,	3.3	3
338	High-Performance Thermoelectric Generators for Field Deployments. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10389-10401	9.5	13
337	Organismic materials for beyond von Neumann machines. <i>Applied Physics Reviews</i> , 2020 , 7, 011309	17.3	12
336	Maximizing power generation from ambient stray magnetic fields around smart infrastructures enabling self-powered wireless devices. <i>Energy and Environmental Science</i> , 2020 , 13, 1462-1472	35.4	23
335	Multifunctional nanostructured materials for next generation photovoltaics. <i>Nano Energy</i> , 2020 , 70, 104480	17.1	25
334	Large Power Amplification in Magneto-Mechano-Electric Harvesters through Distributed Forcing. <i>Advanced Energy Materials</i> , 2020 , 10, 1903689	21.8	23
333	Phase Transitions and Phonon Mode Dynamics of Ba(Cu _{1/3} Nb _{2/3})O ₃ and Sr(Cu _{1/3} Nb _{2/3})O ₃ for Understanding Thermoelectric Response. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3939-3945	6.1	0
332	Nature of terrace edge states (TES) in lower-dimensional halide perovskite. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7659-7670	13	8
331	Geometrical frustration and piezoelectric response in oxide ferroics. <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
330	Fundamental understanding of millipede morphology and locomotion dynamics. <i>Bioinspiration and Biomimetics</i> , 2020 ,	2.6	2
329	Linear thermomagnetic energy harvester for low-grade thermal energy harvesting. <i>Journal of Applied Physics</i> , 2020 , 127, 044501	2.5	12
328	Tunable High-Power Multilayer Piezoelectric Transformer. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8335-8343	8.9	1
327	Bismuth Telluride Thermoelectrics with 8% Module Efficiency for Waste Heat Recovery Application. <i>IScience</i> , 2020 , 23, 101340	6.1	19

326	Understanding Oxidation Resistance of Half-Heusler Alloys for in-Air High Temperature Sustainable Thermoelectric Generators. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36706-36714	9.5	14
325	Artemisinin (ART)-Induced Perovskite/perovskite/bilayer structured photovoltaics. <i>Nano Energy</i> , 2020 , 78, 105133	17.1	11
324	Synthesis of Perovskite Nanocrystals and Their Photon-Emission Application in Conjunction With Liquid Crystals. <i>Frontiers in Chemistry</i> , 2020 , 8, 574	5	4
323	Bismuth Telluride/Half-Heusler Segmented Thermoelectric Unicouple Modules Provide 12% Conversion Efficiency. <i>Advanced Energy Materials</i> , 2020 , 10, 2001924	21.8	12
322	Two-dimensional hybrid organic/inorganic perovskites as emergent ferroelectric materials. <i>Journal of Applied Physics</i> , 2020 , 128, 060906	2.5	13
321	3D printed graphene-based self-powered strain sensors for smart tires in autonomous vehicles. <i>Nature Communications</i> , 2020 , 11, 5392	17.4	31
320	Electric Field Control of Magnetic Permeability in Co-Fired Laminate Magnetolectric Composites: A Phase-Field Study for Voltage Tunable Inductor Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44981-44990	9.5	3
319	Isothermally crystallized perovskites at room-temperature. <i>Energy and Environmental Science</i> , 2020 , 13, 3412-3422	35.4	71
318	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
317	Monocrystalline perovskite wafers/thin films for photovoltaic and transistor applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24661-24690	13	18
316	Enhanced Performance and Stability in DNA-Perovskite Heterostructure-Based Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2646-2655	20.1	26
315	High Power Density Body Heat Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40107-40117	10.5	17
314	Three-dimensional printing of piezoelectric materials with designed anisotropy and directional response. <i>Nature Materials</i> , 2019 , 18, 234-241	27	165
313	Ultrahigh Durability Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 1251-1259	11.5	27
312	Energy scavenging from ultra-low temperature gradients. <i>Energy and Environmental Science</i> , 2019 , 12, 1008-1018	35.4	14
311	Nonionic Sc ³⁺ Dopant for Efficient and Stable Halide Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1852-1861	20.1	28
310	Anisotropic Thermoelectric Performance and Sustainable Thermal Stability in Textured Ca ₃ Co ₄ O ₉ /Ag Nanocomposites. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4292-4301	6.1	6
309	Shape memory alloy engine for high efficiency low-temperature gradient thermal to electrical conversion. <i>Applied Energy</i> , 2019 , 251, 113277	10.7	12

308	An experimental system for measurements of Seebeck coefficient and electrical resistivity in bulk thermoelectric materials at high temperatures. <i>Measurement Science and Technology</i> , 2019 , 30, 075901	2	1
307	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
306	Ultra-high performance wearable thermoelectric coolers with less materials. <i>Nature Communications</i> , 2019 , 10, 1765	17.4	84
305	Photovoltaic Devices: Fullerene Polymer Complex Inducing Dipole Electric Field for Stable Perovskite Solar Cells (Adv. Funct. Mater. 12/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970078	15.6	1
304	Fullerene Polymer Complex Inducing Dipole Electric Field for Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1804419	15.6	28
303	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
302	Melanin/Perovskite Composites for Photothermal Conversion. <i>Advanced Energy Materials</i> , 2019 , 9, 1901758	15.8	18
301	Distinct conducting layer edge states in two-dimensional (2D) halide perovskite. <i>Science Advances</i> , 2019 , 5, eaau3241	14.3	47
300	Recent progress in fundamental understanding of halide perovskite semiconductors. <i>Progress in Materials Science</i> , 2019 , 106, 100580	42.2	69
299	Bacteriorhodopsin Enhances Efficiency of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30728-30734	9.5	16
298	High performance thermoelectric module through isotype bulk heterojunction engineering of skutterudite materials. <i>Nano Energy</i> , 2019 , 66, 104193	17.1	27
297	Filiform Metal Silver Nanoinclusions To Enhance Thermoelectric Performance of P-type CaCoO Oxide. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42131-42138	9.5	11
296	High-Efficiency Skutterudite Modules at a Low Temperature Gradient. <i>Energies</i> , 2019 , 12, 4292	3.1	11
295	Coherent acoustic phonons and ultrafast carrier dynamics in hetero-epitaxial BaTiO ₃ /BiFeO ₃ films and nanorods. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14212-14222	7.1	4
294	Voltage-Controlled Tunable Capacitor based Resonant Power Converter 2019 ,		2
293	Programming of Memristive Artificial Synaptic Crossbar Network Using PWM Techniques. <i>Journal of Circuits, Systems and Computers</i> , 2019 , 28, 1950201	0.9	6
292	Enhanced Thermoelectric Performance of Yb-Single-Filled Skutterudite by Ultralow Thermal Conductivity. <i>Chemistry of Materials</i> , 2019 , 31, 862-872	9.6	39
291	Computational study of cobalt-modified nickel-ferrite/PZT magnetoelectric composites for voltage tunable inductor applications. <i>Acta Materialia</i> , 2019 , 166, 493-502	8.4	12

290	Flexible Perowskit-Solarzellen: Herstellung und Anwendungen. <i>Angewandte Chemie</i> , 2019 , 131, 4512-4530	30	21
289	Recent Advances in Flexible Perovskite Solar Cells: Fabrication and Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4466-4483	16.4	183
288	Mono-crystalline Perovskite Photovoltaics toward Ultrahigh Efficiency?. <i>Joule</i> , 2019 , 3, 311-316	27.8	33
287	A Review on Piezoelectric Energy Harvesting: Materials, Methods, and Circuits. <i>Energy Harvesting and Systems</i> , 2019 , 4, 3-39	4.4	177
286	Modulated Magneto-Thermal Response of La _{0.85} Sr _{0.15} MnO ₃ and (Ni _{0.6} Cu _{0.2} Zn _{0.2})Fe ₂ O ₄ Composites for Thermal Energy Harvesters. <i>Energy Harvesting and Systems</i> , 2019 , 4, 57-65	4.4	8
285	Self-Powered Temperature-Mapping Sensors Based on Thermo-Magneto-Electric Generator. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10796-10803	9.5	17
284	Higher power generation from torsion-dominant mode in a zigzag shaped two-dimensional energy harvester. <i>Applied Energy</i> , 2018 , 216, 494-503	10.7	14
283	Quasi-Two-Dimensional Halide Perovskite Single Crystal Photodetector. <i>ACS Nano</i> , 2018 , 12, 4919-4929	16.7	178
282	Magnetic Field Sensing by Exploiting Giant Nonstrain-Mediated Magnetodielectric Response in Epitaxial Composites. <i>Nano Letters</i> , 2018 , 18, 2835-2843	11.5	10
281	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
280	Laser Irradiation of Metal Oxide Films and Nanostructures: Applications and Advances. <i>Advanced Materials</i> , 2018 , 30, e1705148	24	110
279	Low-Temperature Co-Fired Unipoled Multilayer Piezoelectric Transformers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 513-519	3.2	9
278	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
277	Enhanced Self-Biased Magnetoelectric Coupling in Laser-Annealed Pb(Zr,Ti)O Thick Film Deposited on Ni Foil. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11018-11025	9.5	22
276	Surface Symmetry Effect on Self-Assembly of Three-Dimensional Single Crystal Piezoelectric Nanostructures. <i>Chemistry of Materials</i> , 2018 , 30, 2183-2187	9.6	
275	Highly-Stable Organo-Lead Halide Perovskites Synthesized Through Green Self-Assembly Process. <i>Solar Rrl</i> , 2018 , 2, 1800052	7.1	39
274	Materials for energy harvesting: At the forefront of a new wave. <i>MRS Bulletin</i> , 2018 , 43, 176-180	3.2	113
273	High Power Magnetic Field Energy Harvesting through Amplified Magneto-Mechanical Vibration. <i>Advanced Energy Materials</i> , 2018 , 8, 1703313	21.8	45

272	A review on design and performance of thermomagnetic devices. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 33-44	16.2	43
271	A comprehensive model of a lead telluride thermoelectric generator. <i>Energy</i> , 2018 , 142, 813-821	7.9	22
270	Interfacial charge-transfer engineering by ionic liquid for high performance planar CH ₃ NH ₃ PbBr ₃ solar cells. <i>Journal of Energy Chemistry</i> , 2018 , 27, 748-752	12	9
269	Record Efficiency Stable Flexible Perovskite Solar Cell Using Effective Additive Assistant Strategy. <i>Advanced Materials</i> , 2018 , 30, e1801418	24	286
268	High efficiency planar-type perovskite solar cells with negligible hysteresis using EDTA-complexed SnO. <i>Nature Communications</i> , 2018 , 9, 3239	17.4	721
267	A Review on Low-Grade Thermal Energy Harvesting: Materials, Methods and Devices. <i>Materials</i> , 2018 , 11,	3.5	93
266	Broadband dual phase energy harvester: Vibration and magnetic field. <i>Applied Energy</i> , 2018 , 225, 1132-1147	14.7	37
265	A comprehensive optimization study on Bi ₂ Te ₃ -based thermoelectric generators using the Taguchi method. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 175-190	5.8	18
264	Nonlinear DC equivalent circuits for ferroelectric memristor and Its FSM application. <i>Integrated Ferroelectrics</i> , 2018 , 192, 16-27	0.8	3
263	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
262	Combinatory Finite Element and Artificial Neural Network Model for Predicting Performance of Thermoelectric Generator. <i>Energies</i> , 2018 , 11, 2216	3.1	14
261	Colossal tunability in high frequency magnetoelectric voltage tunable inductors. <i>Nature Communications</i> , 2018 , 9, 4998	17.4	23
260	Energy harvesting and strain sensing in smart tire for next generation autonomous vehicles. <i>Applied Energy</i> , 2018 , 232, 312-322	10.7	42
259	Room temperature ferromagnetic resonance in hetero-epitaxial BTO/BFO/LSMO magnetoelectric composite. <i>AIP Advances</i> , 2018 , 8, 105034	1.5	8
258	In Situ Grain Boundary Modification via Two-Dimensional Nanoplates to Remarkably Improve Stability and Efficiency of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39802-39808	29.5	19
257	All electro spray printed perovskite solar cells. <i>Nano Energy</i> , 2018 , 53, 440-448	17.1	31
256	Nanoscale Texturing and Interfaces in Compositionally Modified CaCoO with Enhanced Thermoelectric Performance. <i>ACS Omega</i> , 2018 , 3, 10798-10810	3.9	20
255	Thermoacoustic sound projector: exceeding the fundamental efficiency of carbon nanotubes. <i>Nanotechnology</i> , 2018 , 29, 325704	3.4	13

254	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
253	Computational study of textured ferroelectric polycrystals: Dielectric and piezoelectric properties of template-matrix composites. <i>Journal of Applied Physics</i> , 2017 , 121, 024101	2.5	12
252	Enhanced torsional actuation and stress coupling in Mn-modified 0.93(NaBiTiO)-0.07BaTiO lead-free piezoceramic system. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 51-59	7.1	5
251	Unleashing the Full Potential of Magnetoelectric Coupling in Film Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1605688	24	31
250	Thermo-Magneto-Electric Generator Arrays for Active Heat Recovery System. <i>Scientific Reports</i> , 2017 , 7, 41383	4.9	36
249	Voltage-Controlled Capacitor Feasibility Demonstration in DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5889-5892	7.2	4
248	Cost-effective sustainable-engineering of CH ₃ NH ₃ PbI ₃ perovskite solar cells through slicing and restacking of 2D layers. <i>Nano Energy</i> , 2017 , 36, 295-302	17.1	22
247	Up-Conversion in Perovskite Strontium Stannate Nanocrystal Whiskers. <i>Transactions of the Indian Institute of Metals</i> , 2017 , 70, 573-579	1.2	4
246	Enhanced piezoluminescence in non-stoichiometric ZnS:Cu microparticle based light emitting elastomers. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5387-5394	7.1	16
245	Wafer-Scale Single-Crystalline Ferroelectric Perovskite Nanorod Arrays. <i>Advanced Functional Materials</i> , 2017 , 27, 1701542	15.6	6
244	Computational study of textured ferroelectric polycrystals: Texture development during templated grain growth. <i>Journal of Applied Physics</i> , 2017 , 121, 064108	2.5	4
243	Soft phonon mode dynamics in Aurivillius-type structures. <i>Physical Review B</i> , 2017 , 96,	3.3	12
242	Compositionally Graded Multilayer Ceramic Capacitors. <i>Scientific Reports</i> , 2017 , 7, 12353	4.9	6
241	The permittivity and refractive index measurements of doped barium titanate (BT-BCN). <i>Optical Materials</i> , 2017 , 73, 793-798	3.3	7
240	Harvesting electrical energy from carbon nanotube yarn twist. <i>Science</i> , 2017 , 357, 773-778	33.3	214
239	Fabrication of Lead-Free (CH ₃ NH ₃)BiI Perovskite Photovoltaics in Ethanol Solvent. <i>ChemSusChem</i> , 2017 , 10, 3994-3998	8.3	26
238	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
237	Low-grade waste heat recovery using the reverse magnetocaloric effect. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1899-1908	5.8	26

236	Taguchi optimization of bismuth-telluride based thermoelectric cooler. <i>Journal of Applied Physics</i> , 2017 , 122, 025109	2.5	15
235	. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 1226-1234	2.5	75
234	Theoretical model and computer simulation of Metglas/PZT magnetoelectric composites for voltage tunable inductor applications. <i>Acta Materialia</i> , 2017 , 140, 97-106	8.4	15
233	Discovery and ramifications of incidental Magn π phase generation and release from industrial coal-burning. <i>Nature Communications</i> , 2017 , 8, 194	17.4	30
232	Correlation between tunability and anisotropy in magnetoelectric voltage tunable inductor (VTI). <i>Scientific Reports</i> , 2017 , 7, 16008	4.9	14
231	Optimization of segmented thermoelectric generator using Taguchi and ANOVA techniques. <i>Scientific Reports</i> , 2017 , 7, 16746	4.9	27
230	Interface Controlled Growth of Single-Crystalline PbTiO ₃ Nanostructured Arrays. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27191-27198	3.8	2
229	Resonant filter based buck converters with tunable capacitor 2017 ,		1
228	Self-Biased Magnetoelectric Composites: An Overview and Future Perspectives. <i>Energy Harvesting and Systems</i> , 2016 , 3, 1-42	4.4	48
227	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
226	Applications of Multiferroic Magnetoelectric Composites. <i>Series in Materials Science and Engineering</i> , 2016 , 215-254		2
225	Improved Phase Stability of Formamidinium Lead Triiodide Perovskite by Strain Relaxation. <i>ACS Energy Letters</i> , 2016 , 1, 1014-1020	20.1	244
224	Crystallization of HC(NH ₂) ₂ PbI ₃ Black Polymorph by Solvent Intercalation for Low Temperature Solution Processing of Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26710-26719	3.8	22
223	Giant piezoelectric voltage coefficient in grain-oriented modified PbTiO material. <i>Nature Communications</i> , 2016 , 7, 13089	17.4	90
222	Piezoelectric Response of Sn and Mn Modified Lead Titanate Piezoelectric Ceramics 2016 , 99-115		1
221	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
220	Floor Tile Energy Harvester for Self-Powered Wireless Occupancy Sensing. <i>Energy Harvesting and Systems</i> , 2016 , 3, 43-60	4.4	25
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