

Prashant Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

868
citations

1040056

9
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

1495
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printed graphene-based self-powered strain sensors for smart tires in autonomous vehicles. Nature Communications, 2020, 11, 5392.	12.8	71
2	Maximizing power generation from ambient stray magnetic fields around smart infrastructures enabling self-powered wireless devices. Energy and Environmental Science, 2020, 13, 1462-1472.	30.8	59
3	Three-dimensional printing of piezoelectric materials with designed anisotropy and directional response. Nature Materials, 2019, 18, 234-241.	27.5	298
4	Shape memory alloy engine for high efficiency low-temperature gradient thermal to electrical conversion. Applied Energy, 2019, 251, 113277.	10.1	22
5	Self-Powered Temperature-Mapping Sensors Based on Thermo-Magneto-Electric Generator. ACS Applied Materials & Interfaces, 2018, 10, 10796-10803.	8.0	20
6	A comprehensive optimization study on Bi ₂ Te ₃ -based thermoelectric generators using the Taguchi method. Sustainable Energy and Fuels, 2018, 2, 175-190.	4.9	24
7	Enhanced torsional actuation and stress coupling in Mn-modified 0.93(Na _{0.5} Bi _{0.5} TiO ₃)-0.07BaTiO ₃ lead-free piezoceramic system. Science and Technology of Advanced Materials, 2017, 18, 51-59.	6.1	6
8	Harvesting electrical energy from carbon nanotube yarn twist. Science, 2017, 357, 773-778.	12.6	306
9	Taguchi optimization of bismuth-telluride based thermoelectric cooler. Journal of Applied Physics, 2017, 122, .	2.5	20
10	Lead-free epitaxial ferroelectric material integration on semiconducting (100) Nb-doped SrTiO ₃ for low-power non-volatile memory and efficient ultraviolet ray detection. Scientific Reports, 2015, 5, 12415.	3.3	42