Prashant Kumar

List of Publications by Year
in descending order

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	Harvesting electrical energy from carbon nanotube yarn twist. Science, 2017, 357, 773-778.	12.6	306
2	Three-dimensional printing of piezoelectric materials with designed anisotropy and directional response. Nature Materials, 2019, 18, 234-241.	27.5	298
3	3D printed graphene-based self-powered strain sensors for smart tires in autonomous vehicles. Nature Communications, 2020, 11, 5392.	12.8	71
4	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
5	Lead-free epitaxial ferroelectric material integration on semiconducting (100) Nb-doped SrTiO3 for low-power non-volatile memory and efficient ultraviolet ray detection. Scientific Reports, 2015, 5, 12415.	3.3	42
6	A comprehensive optimization study on Bi₂Te₃-based thermoelectric generators using the Taguchi method. Sustainable Energy and Fuels, 2018, 2, 175-190.	4.9	24
7	Shape memory alloy engine for high efficiency low-temperature gradient thermal to electrical conversion. Applied Energy, 2019, 251, 113277.	10.1	22
8	Taguchi optimization of bismuth-telluride based thermoelectric cooler. Journal of Applied Physics, 2017, 122, .	2.5	20
9	Self-Powered Temperature-Mapping Sensors Based on Thermo-Magneto-Electric Generator. ACS Applied Materials & Interfaces, 2018, 10, 10796-10803.	8.0	20
10	Enhanced torsional actuation and stress coupling in Mn-modified 0.93(Na0.5Bi0.5TiO3)-0.07BaTiO3 lead-free piezoceramic system. Science and Technology of Advanced Materials, 2017, 18, 51-59.	6.1	6