

Bhaskar Dudem

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7965156/bhaskar-dudem-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

35
papers

1,133
citations

21
h-index

33
g-index

36
ext. papers

1,453
ext. citations

9.3
avg. IF

5.22
L-index

#	Paper	IF	Citations
35	Wearable Triboelectric Nanogenerator from Waste Materials for Autonomous Information Transmission Morse Code.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	7
34	High-performance and robust triboelectric nanogenerators based on optimal microstructured poly(vinyl alcohol) and poly(vinylidene fluoride) polymers for self-powered electronic applications. <i>Energy</i> , 2021 , 223, 120031	7.9	13
33	Natural silk-composite enabled versatile robust triboelectric nanogenerators for smart applications. <i>Nano Energy</i> , 2021 , 83, 105819	17.1	14
32	Improved performance of nanogenerator via synergetic piezo/triboelectric effects of lithium niobate microparticles embedded composite films. <i>Composites Science and Technology</i> , 2021 , 201, 108540	8.6	15
31	Exploring the theoretical and experimental optimization of high-performance triboelectric nanogenerators using microarchitected silk cocoon films. <i>Nano Energy</i> , 2020 , 74, 104882	17.1	27
30	Integrated Design of Highly Porous Cellulose-Loaded Polymer-Based Triboelectric Films toward Flexible, Humidity-Resistant, and Sustainable Mechanical Energy Harvesters. <i>ACS Energy Letters</i> , 2020 , 5, 2140-2148	20.1	44
29	Piezo/triboelectric hybrid nanogenerators based on Ca-doped barium zirconate titanate embedded composite polymers for wearable electronics. <i>Composites Science and Technology</i> , 2020 , 188, 107963	8.6	29
28	Wearable Single-Electrode-Mode Triboelectric Nanogenerator via Conductive Polymer-Coated Textiles for Self-Power Electronics. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16450-16458	8.3	56
27	Enhanced electrochemical performance via PPy encapsulated 3D flower-like bismuth molybdate nanoplates for high-performance supercapacitors. <i>Applied Surface Science</i> , 2019 , 478, 846-856	6.7	11
26	Engineering squandered cotton into eco-benign microarchitected triboelectric films for sustainable and highly efficient mechanical energy harvesting. <i>Nano Energy</i> , 2019 , 61, 505-516	17.1	35
25	High-Efficiency and Thermally Sustainable Perovskite Solar Cells with Sandpaper-Aided Flexible Haze/Antireflective Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 12981-12989	8.3	6
24	Humidity Sustained Wearable Pouch-Type Triboelectric Nanogenerator for Harvesting Mechanical Energy from Human Activities. <i>Advanced Functional Materials</i> , 2019 , 29, 1807779	15.6	64
23	Wearable and durable triboelectric nanogenerators via polyaniline coated cotton textiles as a movement sensor and self-powered system. <i>Nano Energy</i> , 2019 , 55, 305-315	17.1	70
22	Acid-free approach towards the growth of vertically aligned TiO ₂ nanorods as an efficient photoanode for dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2018 , 105, 202-209	5.1	9
21	Boosting Light Harvesting in Perovskite Solar Cells by Biomimetic Inverted Hemispherical Architected Polymer Layer with High Haze Factor as an Antireflective Layer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13113-13123	9.5	38
20	Triboelectric nanogenerators with gold-thin-film-coated conductive textile as floating electrode for scavenging wind energy. <i>Nano Research</i> , 2018 , 11, 101-113	10	33
19	Enhanced Performance of Microarchitected PTFE-Based Triboelectric Nanogenerator via Simple Thermal Imprinting Lithography for Self-Powered Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24181-24192	9.5	40

18	Enhancing the output performance of hybrid nanogenerators based on Al-doped BaTiO ₃ composite films: a self-powered utility system for portable electronics. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16101-16110	13	44
17	High-Performance Flexible Piezoelectric-Assisted Triboelectric Hybrid Nanogenerator via Polydimethylsiloxane-Encapsulated Nanoflower-like ZnO Composite Films for Scavenging Energy from Daily Human Activities. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8525-8535	8.3	46
16	Hierarchical Ag/TiO ₂ /Si Forest-Like Nano/Micro-Architectures as Antireflective, Plasmonic Photocatalytic, and Self-Cleaning Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1580-1591	8.3	30
15	High-performance and cost-effective triboelectric nanogenerators by sandpaper-assisted micropatterned polytetrafluoroethylene. <i>Energy</i> , 2018 , 165, 677-684	7.9	28
14	Highly-flexible piezoelectric nanogenerators with silver nanowires and barium titanate embedded composite films for mechanical energy harvesting. <i>Applied Energy</i> , 2018 , 230, 865-874	10.7	101
13	Improved light harvesting efficiency of semitransparent organic solar cells enabled by broadband/omnidirectional subwavelength antireflective architectures. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14769-14779	13	29
12	Nanopillar-array architected PDMS-based triboelectric nanogenerator integrated with a windmill model for effective wind energy harvesting. <i>Nano Energy</i> , 2017 , 42, 269-281	17.1	93
11	Biomimetic nano/micro double-textured silicon with outstanding antireflective and super-hydrophilic surfaces for high optical performance. <i>RSC Advances</i> , 2017 , 7, 33757-33763	3.7	6
10	Hybrid Energy Cell with Hierarchical Nano/Micro-Architected Polymer Film to Harvest Mechanical, Solar, and Wind Energies Individually/Simultaneously. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30165-30175	9.5	37
9	A multifunctional hierarchical nano/micro-structured silicon surface with omnidirectional antireflection and superhydrophilicity via an anodic aluminum oxide etch mask. <i>RSC Advances</i> , 2016 , 6, 3764-3773	3.7	22
8	Fabrication and optical characterization of hybrid antireflective structures with zinc oxide nanorods/micro pyramidal silicon for photovoltaic applications. <i>Optical Materials Express</i> , 2016 , 6, 4000	2.6	3
7	CH ₃ NH ₃ PbI ₃ planar perovskite solar cells with antireflection and self-cleaning function layers. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7573-7579	13	62
6	Thermal-tolerant polymers with antireflective and hydrophobic grooved subwavelength grating surfaces for high-performance optics. <i>RSC Advances</i> , 2016 , 6, 79755-79762	3.7	8
5	Hierarchical structured polymers for light-absorption enhancement of silicon-based solar power systems. <i>RSC Advances</i> , 2016 , 6, 55159-55166	3.7	10
4	Effect of calcination temperature on cobalt substituted cadmium ferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5078-5084	2.1	7
3	Multifunctional polymers with biomimetic compound architectures via nanoporous AAO films for efficient solar energy harvesting in dye-sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 90103-90110	3.7	14
2	Highly Transparent and Flexible Triboelectric Nanogenerators with Subwavelength-Architected Polydimethylsiloxane by a Nanoporous Anodic Aluminum Oxide Template. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20520-9	9.5	73
1	Broadband and wide-angle antireflective characteristics of nanoporous anodic alumina films for silicon-based optoelectronic applications. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 118, 439-447	1.9	9

