Pukar Maharjan

List of Publications by Year
in descending order

43 papers	2,100 citations	201674 27 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	1377 citing authors

#	Article	IF	Citations
1	High-performance triboelectric nanogenerator based on MXene functionalized polyvinylidene fluoride composite nanofibers. Nano Energy, 2021, 81, 105670.	16.0	211
2	Electrospun PVDF-TrFE/MXene Nanofiber Mat-Based Triboelectric Nanogenerator for Smart Home Appliances. ACS Applied Materials & Interfaces, 2021, 13, 4955-4967.	8.0	211
3	A Novel MXene/Ecoflex Nanocompositeâ€Coated Fabric as a Highly Negative and Stable Friction Layer for Highâ€Output Triboelectric Nanogenerators. Advanced Energy Materials, 2021, 11, .	19.5	133
4	A human locomotion inspired hybrid nanogenerator for wrist-wearable electronic device and sensor applications. Nano Energy, 2018, 46, 383-395.	16.0	125
5	An impedance tunable and highly efficient triboelectric nanogenerator for large-scale, ultra-sensitive pressure sensing applications. Nano Energy, 2018, 49, 603-613.	16.0	124
6	High-performance cycloid inspired wearable electromagnetic energy harvester for scavenging human motion energy. Applied Energy, 2019, 256, 113987.	10.1	102
7	Natural wind-driven ultra-compact and highly efficient hybridized nanogenerator for self-sustained wireless environmental monitoring system. Nano Energy, 2019, 57, 256-268.	16.0	98
8	Fabricâ€Assisted MXene/Silicone Nanocompositeâ€Based Triboelectric Nanogenerators for Selfâ€Powered Sensors and Wearable Electronics. Advanced Functional Materials, 2022, 32, 2107143.	14.9	81
9	A laser ablated graphene-based flexible self-powered pressure sensor for human gestures and finger pulse monitoring. Nano Research, 2019, 12, 1789-1795.	10.4	75
10	A human skin-inspired self-powered flex sensor with thermally embossed microstructured triboelectric layers for sign language interpretation. Nano Energy, 2020, 76, 105071.	16.0	74
11	High performance human-induced vibration driven hybrid energy harvester for powering portable electronics. Nano Energy, 2018, 45, 236-246.	16.0	71
12	Biomechanical Energyâ€Driven Hybridized Generator as a Universal Portable Power Source for Smart/Wearable Electronics. Advanced Energy Materials, 2020, 10, 1903663.	19.5	63
13	Miniaturized springless hybrid nanogenerator for powering portable and wearable electronic devices from human-body-induced vibration. Nano Energy, 2018, 51, 61-72.	16.0	60
14	A highly miniaturized freestanding kinetic-impact-based non-resonant hybridized electromagnetic-triboelectric nanogenerator for human induced vibrations harvesting. Applied Energy, 2020, 279, 115799.	10.1	55
15	A Fully Functional Universal Selfâ€Chargeable Power Module for Portable/Wearable Electronics and Selfâ€Powered IoT Applications. Advanced Energy Materials, 2020, 10, 2002782.	19.5	53
16	Flexible and robust dry electrodes based on electroconductive polymer spray-coated 3D porous graphene for long-term electrocardiogram signal monitoring system. Carbon, 2020, 165, 26-36.	10.3	52
17	Cobaltâ€Nanoporous Carbon Functionalized Nanocompositeâ€Based Triboelectric Nanogenerator for Contactless and Sustainable Selfâ€Powered Sensor Systems. Advanced Functional Materials, 2021, 31, 2105110.	14.9	47
18	Cation functionalized nylon composite nanofibrous mat as a highly positive friction layer for robust, high output triboelectric nanogenerators and self-powered sensors. Nano Energy, 2021, 88, 106300.	16.0	47

#	Article	IF	Citations
19	An indoor power line based magnetic field energy harvester for self-powered wireless sensors in smart home applications. Applied Energy, 2018, 232, 398-408.	10.1	46
20	A fully enclosed, 3D printed, hybridized nanogenerator with flexible flux concentrator for harvesting diverse human biomechanical energy. Nano Energy, 2018, 53, 213-224.	16.0	46
21	A human-machine interactive hybridized biomechanical nanogenerator as a self-sustainable power source for multifunctional smart electronics applications. Nano Energy, 2020, 76, 105025.	16.0	40
22	Polyaniline-nanospines engineered nanofibrous membrane based piezoresistive sensor for high-performance electronic skins. Nano Energy, 2022, 95, 106970.	16.0	37
23	A Siloxene/Ecoflex Nanocompositeâ€Based Triboelectric Nanogenerator with Enhanced Charge Retention by MoS₂/LIG for Selfâ€Powered Touchless Sensor Applications. Advanced Functional Materials, 2022, 32, .	14.9	36
24	Keystroke Dynamics based Hybrid Nanogenerators for Biometric Authentication and Identification using Artificial Intelligence. Advanced Science, 2021, 8, e2100711.	11.2	35
25	Hand clapping inspired integrated multilayer hybrid nanogenerator as a wearable and universal power source for portable electronics. Nano Energy, 2019, 63, 103816.	16.0	33
26	A Batteryâ€Less Arbitrary Motion Sensing System Using Magnetic Repulsionâ€Based Selfâ€Powered Motion Sensors and Hybrid Nanogenerator. Advanced Functional Materials, 2020, 30, 2003276.	14.9	33
27	Ultra-robust and broadband rotary hybridized nanogenerator for self-sustained smart-farming applications. Nano Energy, 2021, 85, 105974.	16.0	33
28	Design and experimental analysis of a low-frequency resonant hybridized nanogenerator with a wide bandwidth and high output power density. Nano Energy, 2019, 66, 104122.	16.0	21
29	A Hybrid Selfâ€Powered Arbitrary Wave Motion Sensing System for Realâ€Time Wireless Marine Environment Monitoring Application. Advanced Energy Materials, 2022, 12, .	19.5	18
30	High-performance keyboard typing motion driven hybrid nanogenerator. Nano Energy, 2021, 88, 106232.	16.0	14
31	Highly Responsive and Robust Micro-/Nano-Textured Self-Powered Triboelectric Humidity Sensor. ACS Applied Electronic Materials, 0, , .	4.3	5
32	A Highâ€Performance Rotational Energy Harvester Integrated with Artificial Intelligenceâ€Powered Triboelectric Sensors for Wireless Environmental Monitoring System. Advanced Engineering Materials, 2022, 24, .	3.5	5
33	Thermal Imprinted Self-Powered Triboelectric Flexible Sensor for Sign Language Translation. , 2019, , .		4
34	All-Direction In-Plane Magnetic Repulsion-Based Self-Powered Arbitrary Motion Sensor and Hybrid Nanogenerator. , 2019, , .		4
35	A Highly Sensitive Self-Powered Flex Sensor for Prosthetic Arm and Interpreting Gesticulation. , 2020, , .		2
36	Cobaltâ€Nanoporous Carbon Functionalized Nanocompositeâ€Based Triboelectric Nanogenerator for Contactless and Sustainable Selfâ€Powered Sensor Systems (Adv. Funct. Mater. 52/2021). Advanced Functional Materials, 2021, 31, .	14.9	2

#	Article	IF	Citations
37	A human locomotion driven hybrid energy harvester for wrist wearable applications. Journal of Physics: Conference Series, 2018, 1052, 012093.	0.4	1
38	A fully-enclosed wrist-wearable hybrid nanogenerator for self-powered sensors. Journal of Physics: Conference Series, 2019, 1407, 012004.	0.4	1
39	Hybrid Energy Harvesters: A Fully Functional Universal Selfâ€Chargeable Power Module for Portable/Wearable Electronics and Selfâ€Powered IoT Applications (Adv. Energy Mater. 48/2020). Advanced Energy Materials, 2020, 10, 2070199.	19.5	1
40	Siloxene-Polymer Composite Nanofiber Towards High-Performance Triboelectric Harvesters and Self-Powered Sensors. , 2022, , .		1
41	Batteryâ€Less Motion Sensing: A Batteryâ€Less Arbitrary Motion Sensing System Using Magnetic Repulsionâ€Based Selfâ€Powered Motion Sensors and Hybrid Nanogenerator (Adv. Funct. Mater. 36/2020). Advanced Functional Materials, 2020, 30, 2070245.	14.9	0
42	Biomechanical Energy: Biomechanical Energyâ€Driven Hybridized Generator as a Universal Portable Power Source for Smart/Wearable Electronics (Adv. Energy Mater. 12/2020). Advanced Energy Materials, 2020, 10, 2070056.	19.5	0
43	A Hybrid Selfâ€Powered Arbitrary Wave Motion Sensing System for Realâ€Time Wireless Marine Environment Monitoring Application (Adv. Energy Mater. 7/2022). Advanced Energy Materials, 2022, 12, .	19.5	0