Zicheng Yuan

List of Publications by Year
in descending order

24 papers	429 citations	759233 12 h-index	752698 20 g-index
25 all docs	25 docs citations	25 times ranked	367 citing authors

#	Article	IF	Citations
1	Screen-printed radial structure micro radioisotope thermoelectric generator. Applied Energy, 2018, 225, 746-754.	10.1	62
2	X-ray radioluminescence effect of all-inorganic halide perovskite CsPbBr3 quantum dots. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 2327-2337.	1.5	45
3	Experimental prototype and simulation optimization of micro-radial milliwatt-power radioisotope thermoelectric generator. Applied Thermal Engineering, 2017, 125, 425-431.	6.0	42
4	CsPbBr₃ Quantum Dot Films with High Luminescence Efficiency and Irradiation Stability for Radioluminescent Nuclear Battery Application. ACS Applied Materials & Interfaces, 2019, 11, 14191-14199.	8.0	40
5	Improving the performance of a screen-printed micro-radioisotope thermoelectric generator through stacking integration. Journal of Power Sources, 2019, 414, 509-516.	7.8	28
6	Preparation and optimization of miniaturized radioisotope thermoelectric generator based on concentric filament architecture. Journal of Power Sources, 2018, 407, 14-22.	7.8	23
7	High-performance and integrated design of thermoelectric generator based on concentric filament architecture. Journal of Power Sources, 2018, 393, 161-168.	7.8	23
8	Enhanced radioluminescent nuclear battery by optimizing structural design of the phosphor layer. International Journal of Energy Research, 2018, 42, 1729-1737.	4.5	20
9	Experimental optimization of smallâ€“scale structureâ€“adjustable radioisotope thermoelectric generators. Applied Energy, 2020, 280, 115907.	10.1	19
10	A stacked and miniaturized radioisotope thermoelectric generator by screen printing. Sensors and Actuators A: Physical, 2017, 267, 496-504.	4.1	16
11	ZnS:Cu Phosphor Layers as Energy Conversion Materials for Nuclear Batteries: A Combined Theoretical and Experimental Study of Their Geometric Structure. Energy Technology, 2017, 5, 1638-1646.	3.8	13
12	Multi-level radioisotope batteries based on 60Co Î³ source and Radio-voltaic/Radio-photovoltaic dual effects. Sensors and Actuators A: Physical, 2018, 275, 119-128.	4.1	13
13	Application of liquid scintillators as energy conversion materials in nuclear batteries. Sensors and Actuators A: Physical, 2019, 290, 162-171.	4.1	13
14	Electrodeposition preparation and optimization of fan-shaped miniaturized radioisotope thermoelectric generator. Energy, 2020, 194, 116873.	8.8	12
15	Thermal Emissionâ€Enhanced and Optically Modulated Radioisotope Thermophotovoltaic Generators. Energy Technology, 2020, 8, 1901170.	3.8	10
16	Comparison and study of the preparation methods for phosphor layer in nuclear battery. International Journal of Energy Research, 2021, 45, 11712-11720.	4.5	10
17	Fanâ€Shaped Flexible Radioisotope Thermoelectric Generators Based on BixTeyand BixSb2â€xTeyFabricated Through Electrochemical Deposition. Energy Technology, 2019, 7, 1800707.	3.8	9
18	High-temperature and radiation-resistant spinel-type ferrite coating for thermo-optical conversion in radioisotope thermophotovoltaic generators. Energy, 2022, 239, 122255.	8.8	8

#	Article	IF	Citations
19	Enhancing the performance of fully-scaled structure-adjustable 3D thermoelectric devices based on coldâ€“press sintering and molding. Energy, 2020, 206, 118096.	8.8	7
20	Development of Micro-radioisotope Thermoelectric Power Supply for Deep Space Exploration Distributed Wireless Sensor Network. Advances in Astronautics Science and Technology, 2020, 3, 157-163.	0.8	6
21	Highâ€Performance Microâ€Radioisotope Thermoelectric Generator with Largeâ€Scale Integration of Multilayer Annular Arrays through Screen Printing and Stacking Coupling. Energy Technology, 2021, 9, 2001047.	3.8	5
22	A study on the degradation of dye-sensitized solar cells irradiated by two different dose rates of Î³-rays. Journal of Radioanalytical and Nuclear Chemistry, 2017, 312, 609-614.	1.5	3
23	Enhanced novel dual effect isotope batteries: Optimization of material and structure. International Journal of Energy Research, 2019, 43, 6389-6395.	4.5	2
24	A novel monitoring method for gamma irradiation facility based on radio-voltaic and photovoltaic effects. Applied Radiation and Isotopes, 2021, 173, 109703.	1.5	0