Dongseob Kim

List of Publications by Year
in descending order

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50 papers	1,549 citations	257450 24 h-index	315739 38 g-index
50 all docs	50 docs citations	50 times ranked	1933 citing authors

#	Article	IF	Citations
1	Triboelectric nanogenerator for harvesting pendulum oscillation energy. Nano Energy, 2013, 2, 1113-1120.	16.0	148
2	ZnO nanosheets-decorated Bi2WO6 nanolayers as efficient photocatalysts for the removal of toxic environmental pollutants and photoelectrochemical solar water oxidation. Journal of Environmental Management, 2020, 265, 110504.	7.8	117
3	Excellent visible-light driven photocatalyst of (Al, Ni) co-doped ZnO structures for organic dye degradation. Catalysis Today, 2020, 340, 277-285.	4.4	86
4	Robust Superhydrophilic/Hydrophobic Surface Based on Self-Aggregated Al₂O₃ Nanowires by Single-Step Anodization and Self-Assembly Method. ACS Applied Materials & Interfaces, 2012, 4, 5074-5078.	8.0	81
5	Frosting and defrosting on rigid superhydrohobic surface. Applied Surface Science, 2013, 276, 37-42.	6.1	81
6	A simple fabrication method for mechanically robust superhydrophobic surface by hierarchical aluminum hydroxide structures. Current Applied Physics, 2013, 13, 762-767.	2.4	78
7	Triboelectric speed bump as a self-powered automobile warning and velocity sensor. Nano Energy, 2020, 72, 104719.	16.0	54
8	Direct-current triboelectric nanogenerator via water electrification and phase control. Nano Energy, 2018, 52, 95-104.	16.0	50
9	Structural, optical, and bifunctional applications: Supercapacitor and photoelectrochemical water splitting of Ni-doped ZnO nanostructures. Journal of Electroanalytical Chemistry, 2018, 828, 124-136.	3.8	49
10	Structural, optical and XPS study of thermal evaporated In₂O₃thin films. Materials Research Express, 2017, 4, 086406.	1.6	47
11	Toward Robust Nanogenerators Using Aluminum Substrate. Advanced Materials, 2012, 24, 4398-4402.	21.0	45
12	Ionâ€Enhanced Field Emission Triboelectric Nanogenerator. Advanced Energy Materials, 2019, 9, 1901731.	19.5	44
13	Effect of ball milling on optical properties and visible photocatalytic activity of Fe doped ZnO nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 240, 33-40.	3.5	44
14	SnO2 quantum dots decorated NiFe2O4 nanoplates: 0D/2D heterojunction for enhanced visible-light-driven photocatalysis. Materials Science in Semiconductor Processing, 2020, 107, 104834.	4.0	40
15	Fabrication of patterned surfaces that exhibit variable wettability ranging from superhydrophobicity to high hydrophilicity by laser irradiation. Applied Surface Science, 2014, 288, 619-624.	6.1	38
16	Capacitorâ€Integrated Triboelectric Nanogenerator Based on Metalâ€“Metal Contact for Current Amplification. Advanced Energy Materials, 2018, 8, 1703024.	19.5	37
17	Handâ€Driven Gyroscopic Hybrid Nanogenerator for Recharging Portable Devices. Advanced Science, 2018, 5, 1801054.	11.2	37
18	Effect of adhesive bonds on electrical performance in multi-layer composite antenna. Composite Structures, 2009, 90, 413-417.	5.8	34

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19	Nonpolar Liquid Lubricant Submerged Triboelectric Nanogenerator for Current Amplification via Direct Electron Flow. Advanced Energy Materials, 2021, 11, 2100936.	19.5	33
20	Comb-structured triboelectric nanogenerators for multi-directional energy scavenging from human movements. Science and Technology of Advanced Materials, 2019, 20, 725-732.	6.1	28
21	Elastic spiral triboelectric nanogenerator as a self-charging case for portable electronics. Nano Energy, 2018, 50, 133-139.	16.0	27
22	High performance hierarchical SiCN nanowires for efficient photocatalytic - photoelectrocatalytic and supercapacitor applications. Applied Catalysis B: Environmental, 2018, 237, 876-887.	20.2	27
23	Highly reliable triboelectric bicycle tire as self-powered bicycle safety light and pressure sensor. Nano Energy, 2022, 93, 106797.	16.0	27
24	A template-based superhydrophobic tube structure with nanofiber forests and its mass flow characteristic. Journal of Micromechanics and Microengineering, 2010, 20, 027002.	2.6	25
25	Mesoporous Highly-Deformable Composite Polymer for a Gapless Triboelectric Nanogenerator via a One-Step Metal Oxidation Process. Micromachines, 2018, 9, 656.	2.9	25
26	Effect of plasmonic Ag nanowires on the photocatalytic activity of Cu doped Fe2O3 nanostructures photoanodes for superior photoelectrochemical water splitting applications. Journal of Electroanalytical Chemistry, 2019, 842, 146-160.	3.8	24
27	Energy-loss return gate via liquid dielectric polarization. Nature Communications, 2018, 9, 1437.	12.8	19
28	Semisolid-lubricant-based ball-bearing triboelectric nanogenerator for current amplification, enhanced mechanical lifespan, and thermal stabilization. Nano Energy, 2022, 93, 106816.	16.0	17
29	Facile synthesis and characterization of V2O5 nanobelt bundles containing plasmonic Ag for photoelectrochemical water splitting under visible light irradiation. Ceramics International, 2019, 45, 23333-23340.	4.8	15
30	Condensed droplet-based electricity generation via water-phase change. Nano Energy, 2021, 82, 105713.	16.0	15
31	Effect of seed layers (Al, Ti) on optical and morphology of Fe-doped ZnO thin film nanowires grown on Si substrate via electron beam evaporation. Materials Science in Semiconductor Processing, 2017, 71, 296-303.	4.0	14
32	Artificial lotus leaf structures made by blasting with sodium bicarbonate. Current Applied Physics, 2011, 11, 800-804.	2.4	13
33	Complete wetting characteristics of micro/nano dual-scale surface by plasma etching to give nanohoneycomb structure. Current Applied Physics, 2012, 12, 219-224.	2.4	13
34	A stable novel nanostructure of ZnFe2O4 based nanocomposite for improved photoelectrocatalytic and photocatalytic activities. Journal of Electroanalytical Chemistry, 2018, 823, 517-526.	3.8	13
35	Structural, optical, and XPS studies of doped yttria for superior water splitting under visible light illumination. Journal of Electroanalytical Chemistry, 2019, 848, 113335.	3.8	12
36	Versatile energy loss conversion for recovering waste alternating potential through polarization transfer medium. Nano Energy, 2020, 69, 104400.	16.0	10

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37	Design and fabrication of a composite-antenna-structure for broadband frequency with microwave absorber. Journal of Composite Materials, 2012, 46, 1851-1858.	2.4	9
38	Lightweight mobile stick-type water-based triboelectric nanogenerator with amplified current for portable safety devices. Science and Technology of Advanced Materials, 2022, 23, 161-168.	6.1	9
39	Impact evaluation of composite-antenna-structure with embedded dual-band annular ring patch antenna. Journal of Composite Materials, 2012, 46, 2765-2775.	2.4	8
40	Improved sunlight-driven photocatalytic abatement of tetracycline and photoelectrocatalytic water oxidation by tin oxide quantum dots anchored on nickel ferrite nanoplates. Journal of Electroanalytical Chemistry, 2021, 900, 115699.	3.8	8
41	Systematic studies of Bi2O3 hierarchical nanostructural and plasmonic effect on photoelectrochemical activity under visible light irradiation. Ceramics International, 2019, 45, 16784-16791.	4.8	7
42	Cu2+ and Y3+ co-doped effect on morphology, structural, optical and photoelectrochemical properties of Fe2O3 photoanode. Journal of Electroanalytical Chemistry, 2020, 878, 114692.	3.8	7
43	Photoelectrochemical Studies on Metal-Doped Graphitic Carbon Nitride Nanostructures under Visible-Light Illumination. Catalysts, 2020, 10, 983.	3.5	7
44	On the size effect for micro-scale structures under the plane bulge test using the modified strain gradient theory. International Journal of Precision Engineering and Manufacturing, 2011, 12, 865-870.	2.2	6
45	Truffle-shaped ZnFe2O4-BiVO4 nanostructures nanocomposite for photoelectrochemical activity under light illumination. Journal of Electroanalytical Chemistry, 2020, 873, 114424.	3.8	6
46	A study of coral reef-like tetragonal Mn3O4 nanostructure photoelectrode for photoelectrochemical water splitting under visible irradiation. Journal of Electroanalytical Chemistry, 2020, 874, 114488.	3.8	4
47	Photoelectrochemical water oxidation kinetics and antibacterial studies of one-dimensional SiC nanowires synthesized from industrial waste. Journal of Solid State Electrochemistry, 2021, 25, 2457-2469.	2.5	4
48	Behavioral characteristics of composite-antenna-structure covering three bands under compression load. Journal of Composite Materials, 2014, 48, 2579-2587.	2.4	3
49	Effect of wettability on the water entry problem of aluminum spheres. Journal of Mechanical Science and Technology, 2020, 34, 1257-1263.	1.5	3
50	Triboelectric Nanogenerators: Capacitor-Integrated Triboelectric Nanogenerator Based on Metal-Metal Contact for Current Amplification (Adv. Energy Mater. 15/2018). Advanced Energy Materials, 2018, 8, 1870070.	19.5	1