

# Dongseob Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Highly reliable triboelectric bicycle tire as self-powered bicycle safety light and pressure sensor. <i>Nano Energy</i> , 2022, 93, 106797.	16.0	27
2	Semisolid-lubricant-based ball-bearing triboelectric nanogenerator for current amplification, enhanced mechanical lifespan, and thermal stabilization. <i>Nano Energy</i> , 2022, 93, 106816.	16.0	17
3	Lightweight mobile stick-type water-based triboelectric nanogenerator with amplified current for portable safety devices. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 161-168.	6.1	9
4	Condensed droplet-based electricity generation via water-phase change. <i>Nano Energy</i> , 2021, 82, 105713.	16.0	15
5	Nonpolar Liquid Lubricant Submerged Triboelectric Nanogenerator for Current Amplification via Direct Electron Flow. <i>Advanced Energy Materials</i> , 2021, 11, 2100936.	19.5	33
6	Photoelectrochemical water oxidation kinetics and antibacterial studies of one-dimensional SiC nanowires synthesized from industrial waste. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2457-2469.	2.5	4
7	Improved sunlight-driven photocatalytic abatement of tetracycline and photoelectrocatalytic water oxidation by tin oxide quantum dots anchored on nickel ferrite nanoplates. <i>Journal of Electroanalytical Chemistry</i> , 2021, 900, 115699.	3.8	8
8	Excellent visible-light driven photocatalyst of (Al, Ni) co-doped ZnO structures for organic dye degradation. <i>Catalysis Today</i> , 2020, 340, 277-285.	4.4	86
9	Versatile energy loss conversion for recovering waste alternating potential through polarization transfer medium. <i>Nano Energy</i> , 2020, 69, 104400.	16.0	10
10	SnO <sub>2</sub> quantum dots decorated NiFe <sub>2</sub> O <sub>4</sub> nanoplates: 0D/2D heterojunction for enhanced visible-light-driven photocatalysis. <i>Materials Science in Semiconductor Processing</i> , 2020, 107, 104834.	4.0	40
11	A study of coral reef-like tetragonal Mn <sub>3</sub> O <sub>4</sub> nanostructure photoelectrode for photoelectrochemical water splitting under visible irradiation. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114488.	3.8	4
12	Cu <sup>2+</sup> and Y <sup>3+</sup> co-doped effect on morphology, structural, optical and photoelectrochemical properties of Fe <sub>2</sub> O <sub>3</sub> photoanode. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114692.	3.8	7
13	Photoelectrochemical Studies on Metal-Doped Graphitic Carbon Nitride Nanostructures under Visible-Light Illumination. <i>Catalysts</i> , 2020, 10, 983.	3.5	7
14	Effect of wettability on the water entry problem of aluminum spheres. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 1257-1263.	1.5	3
15	Truffle-shaped ZnFe <sub>2</sub> O <sub>4</sub> -BiVO <sub>4</sub> nanostructures nanocomposite for photoelectrochemical activity under light illumination. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114424.	3.8	6
16	Triboelectric speed bump as a self-powered automobile warning and velocity sensor. <i>Nano Energy</i> , 2020, 72, 104719.	16.0	54
17	ZnO nanosheets-decorated Bi <sub>2</sub> WO <sub>6</sub> nanolayers as efficient photocatalysts for the removal of toxic environmental pollutants and photoelectrochemical solar water oxidation. <i>Journal of Environmental Management</i> , 2020, 265, 110504.	7.8	117
18	Ion-Enhanced Field Emission Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2019, 9, 1901731.	19.5	44

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19	Structural, optical, and XPS studies of doped yttria for superior water splitting under visible light illumination. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113335.	3.8	12
20	Comb-structured triboelectric nanogenerators for multi-directional energy scavenging from human movements. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 725-732.	6.1	28
21	Facile synthesis and characterization of V <sub>2</sub> O <sub>5</sub> nanobelt bundles containing plasmonic Ag for photoelectrochemical water splitting under visible light irradiation. <i>Ceramics International</i> , 2019, 45, 23333-23340.	4.8	15
22	Effect of ball milling on optical properties and visible photocatalytic activity of Fe doped ZnO nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 240, 33-40.	3.5	44
23	Systematic studies of Bi <sub>2</sub> O <sub>3</sub> hierarchical nanostructural and plasmonic effect on photoelectrochemical activity under visible light irradiation. <i>Ceramics International</i> , 2019, 45, 16784-16791.	4.8	7
24	Effect of plasmonic Ag nanowires on the photocatalytic activity of Cu doped Fe <sub>2</sub> O <sub>3</sub> nanostructures photoanodes for superior photoelectrochemical water splitting applications. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 146-160.	3.8	24
25	Energy-loss return gate via liquid dielectric polarization. <i>Nature Communications</i> , 2018, 9, 1437.	12.8	19
26	Capacitor-Integrated Triboelectric Nanogenerator Based on Metal-Metal Contact for Current Amplification. <i>Advanced Energy Materials</i> , 2018, 8, 1703024.	19.5	37
27	Mesoporous Highly-Deformable Composite Polymer for a Gapless Triboelectric Nanogenerator via a One-Step Metal Oxidation Process. <i>Micromachines</i> , 2018, 9, 656.	2.9	25
28	Structural, optical, and bifunctional applications: Supercapacitor and photoelectrochemical water splitting of Ni-doped ZnO nanostructures. <i>Journal of Electroanalytical Chemistry</i> , 2018, 828, 124-136.	3.8	49
29	Hand-Driven Gyroscopic Hybrid Nanogenerator for Recharging Portable Devices. <i>Advanced Science</i> , 2018, 5, 1801054.	11.2	37
30	Triboelectric Nanogenerators: Capacitor-Integrated Triboelectric Nanogenerator Based on Metal-Metal Contact for Current Amplification ( <i>Adv. Energy Mater.</i> 15/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870070.	19.5	1
31	Elastic spiral triboelectric nanogenerator as a self-charging case for portable electronics. <i>Nano Energy</i> , 2018, 50, 133-139.	16.0	27
32	High performance hierarchical SiCN nanowires for efficient photocatalytic - photoelectrocatalytic and supercapacitor applications. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 876-887.	20.2	27
33	Direct-current triboelectric nanogenerator via water electrification and phase control. <i>Nano Energy</i> , 2018, 52, 95-104.	16.0	50
34	A stable novel nanostructure of ZnFe <sub>2</sub> O <sub>4</sub> based nanocomposite for improved photoelectrocatalytic and photocatalytic activities. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 517-526.	3.8	13
35	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. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 296-303.	4.0	14
36	Structural, optical and XPS study of thermal evaporated In <sub>2</sub> O <sub>3</sub> thin films. <i>Materials Research Express</i> , 2017, 4, 086406.	1.6	47

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37	Behavioral characteristics of composite-antenna-structure covering three bands under compression load. <i>Journal of Composite Materials</i> , 2014, 48, 2579-2587.	2.4	3
38	Fabrication of patterned surfaces that exhibit variable wettability ranging from superhydrophobicity to high hydrophilicity by laser irradiation. <i>Applied Surface Science</i> , 2014, 288, 619-624.	6.1	38
39	A simple fabrication method for mechanically robust superhydrophobic surface by hierarchical aluminum hydroxide structures. <i>Current Applied Physics</i> , 2013, 13, 762-767.	2.4	78
40	Triboelectric nanogenerator for harvesting pendulum oscillation energy. <i>Nano Energy</i> , 2013, 2, 1113-1120.	16.0	148
41	Frosting and defrosting on rigid superhydrophobic surface. <i>Applied Surface Science</i> , 2013, 276, 37-42.	6.1	81
42	Design and fabrication of a composite-antenna-structure for broadband frequency with microwave absorber. <i>Journal of Composite Materials</i> , 2012, 46, 1851-1858.	2.4	9
43	Impact evaluation of composite-antenna-structure with embedded dual-band annular ring patch antenna. <i>Journal of Composite Materials</i> , 2012, 46, 2765-2775.	2.4	8
44	Robust Superhydrophilic/Hydrophobic Surface Based on Self-Aggregated $\text{Al}_2\text{O}_3$ Nanowires by Single-Step Anodization and Self-Assembly Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5074-5078.	8.0	81
45	Toward Robust Nanogenerators Using Aluminum Substrate. <i>Advanced Materials</i> , 2012, 24, 4398-4402.	21.0	45
46	Complete wetting characteristics of micro/nano dual-scale surface by plasma etching to give nanohoneycomb structure. <i>Current Applied Physics</i> , 2012, 12, 219-224.	2.4	13
47	Artificial lotus leaf structures made by blasting with sodium bicarbonate. <i>Current Applied Physics</i> , 2011, 11, 800-804.	2.4	13
48	On the size effect for micro-scale structures under the plane bulge test using the modified strain gradient theory. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 865-870.	2.2	6
49	A template-based superhydrophobic tube structure with nanofiber forests and its mass flow characteristic. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 027002.	2.6	25
50	Effect of adhesive bonds on electrical performance in multi-layer composite antenna. <i>Composite Structures</i> , 2009, 90, 413-417.	5.8	34