

Yi-Cheng Wang

List of Publications by Year in descending order

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29
papers

3,619
citations

304368

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476904

29
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29
all docs

29
docs citations

29
times ranked

3771
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Electron Transfer Mechanism in the Contact Electrification Effect. <i>Advanced Materials</i> , 2018, 30, e1706790.	11.1	483
2	A Highly Stretchable and Washable All-Yarn-Based Self-Charging Knitting Power Textile Composed of Fiber Triboelectric Nanogenerators and Supercapacitors. <i>ACS Nano</i> , 2017, 11, 9490-9499.	7.3	419
3	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , 2017, 29, 1702648.	11.1	321
4	Shape Memory Polymers for Body Motion Energy Harvesting and Self-Powered Mechanosensing. <i>Advanced Materials</i> , 2018, 30, 1705195.	11.1	249
5	Versatile Core-Sheath Yarn for Sustainable Biomechanical Energy Harvesting and Real-Time Human-Interactive Sensing. <i>Advanced Energy Materials</i> , 2018, 8, 1801114.	10.2	212
6	High-Valence-State NiO/Co ₃ O ₄ Nanoparticles on Nitrogen-Doped Carbon for Oxygen Evolution at Low Overpotential. <i>ACS Energy Letters</i> , 2017, 2, 2177-2182.	8.8	200
7	Rationally designed sea snake structure based triboelectric nanogenerators for effectively and efficiently harvesting ocean wave energy with minimized water screening effect. <i>Nano Energy</i> , 2018, 48, 421-429.	8.2	195
8	A Soft and Robust Spring Based Triboelectric Nanogenerator for Harvesting Arbitrary Directional Vibration Energy and Self-Powered Vibration Sensing. <i>Advanced Energy Materials</i> , 2018, 8, 1702432.	10.2	186
9	A Triboelectric Nanogenerator-Based Smart Insole for Multifunctional Gait Monitoring. <i>Advanced Materials Technologies</i> , 2019, 4, 1800360.	3.0	181
10	Direct Current Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting. <i>ACS Nano</i> , 2020, 14, 4585-4594.	7.3	170
11	Liquid-FEP-based U-tube triboelectric nanogenerator for harvesting water-wave energy. <i>Nano Research</i> , 2018, 11, 4062-4073.	5.8	143
12	An aeroelastic flutter based triboelectric nanogenerator as a self-powered active wind speed sensor in harsh environment. <i>Extreme Mechanics Letters</i> , 2017, 15, 122-129.	2.0	123
13	Cellulose II Aerogel-Based Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2020, 30, 2001763.	7.8	123
14	Elastic Beam Triboelectric Nanogenerator for High-Performance Multifunctional Applications: Sensitive Scale, Acceleration/Force/Vibration Sensor, and Intelligent Keyboard. <i>Advanced Energy Materials</i> , 2018, 8, 1802159.	10.2	102
15	A Hybridized Triboelectric-Electromagnetic Water Wave Energy Harvester Based on a Magnetic Sphere. <i>ACS Nano</i> , 2019, 13, 2349-2356.	7.3	92
16	Biopolymer/gold nanoparticles composite plasmonic thermal history indicator to monitor quality and safety of perishable bioproducts. <i>Biosensors and Bioelectronics</i> , 2017, 92, 109-116.	5.3	67
17	Triboelectric nanogenerator by integrating a cam and a movable frame for ambient mechanical energy harvesting. <i>Nano Energy</i> , 2019, 60, 137-143.	8.2	63
18	Reduced Graphene Oxide/Carbon Nanotube/Gold Nanoparticles Nanocomposite Functionalized Screen-Printed Electrode for Sensitive Electrochemical Detection of Endocrine Disruptor Bisphenol A. <i>Electroanalysis</i> , 2015, 27, 2527-2536.	1.5	51

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19	Spectroscopic and microscopic investigation of gold nanoparticle nucleation and growth mechanisms using gelatin as a stabilizer. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	33
20	Conductive polyaniline-graphene oxide sorbent for electrochemically assisted solid-phase extraction of lead ions in aqueous food samples. <i>Analytica Chimica Acta</i> , 2020, 1100, 57-65.	2.6	32
21	Low-temperature solution process for preparing flexible transparent carbon nanotube film for use in flexible supercapacitors. <i>Nano Research</i> , 2015, 8, 3430-3445.	5.8	28
22	Gold nanoparticle-based thermal history indicator for monitoring low-temperature storage. <i>Mikrochimica Acta</i> , 2015, 182, 1305-1311.	2.5	23
23	Recent advances in CRISPR-based systems for the detection of foodborne pathogens. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 3010-3029.	5.9	23
24	A Simple and Green Route for Room-Temperature Synthesis of Gold Nanoparticles and Selective Colorimetric Detection of Cysteine. <i>Journal of Food Science</i> , 2015, 80, N2071-8.	1.5	22
25	One-pot nanoparticulation of potentially bioactive peptides and gallic acid encapsulation. <i>Food Chemistry</i> , 2016, 210, 317-324.	4.2	21
26	Dynamic Electronic Doping for Correlated Oxides by a Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2018, 30, e1803580.	11.1	20
27	High-density platinum nanoparticle-decorated titanium dioxide nanofiber networks for efficient capillary photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11672-11679.	5.2	18
28	One-Pot Procedure for Recovery of Gallic Acid from Wastewater and Encapsulation within Protein Particles. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 1575-1582.	2.4	10
29	Understanding the association between date labels and consumer-level food waste. <i>Food Quality and Preference</i> , 2022, 96, 104373.	2.3	9