

Jianan Deng

List of Publications by Year in descending order

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39
papers

6,153
citations

109321

35
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302126

39
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docs citations

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6742
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-powered textile for wearable electronics by hybridizing fiber-shaped nanogenerators, solar cells, and supercapacitors. <i>Science Advances</i> , 2016, 2, e1600097.	10.3	705
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.	14.6	419
3	A Stretchable Yarn Embedded Triboelectric Nanogenerator as Electronic Skin for Biomechanical Energy Harvesting and Multifunctional Pressure Sensing. <i>Advanced Materials</i> , 2018, 30, e1804944.	21.0	396
4	Single-Thread-Based Wearable and Highly Stretchable Triboelectric Nanogenerators and Their Applications in Cloth-Based Self-Powered Human-Interactive and Biomedical Sensing. <i>Advanced Functional Materials</i> , 2017, 27, 1604462.	14.9	327
5	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , 2017, 29, 1702648.	21.0	321
6	Electric Eel-Inspired Mechanically Durable and Super-Stretchable Nanogenerator for Deformable Power Source and Fully Autonomous Conformable Electronic Skin Applications. <i>Advanced Materials</i> , 2016, 28, 10024-10032.	21.0	273
7	Multifunctional TENG for Blue Energy Scavenging and Self-Powered Wind-Speed Sensor. <i>Advanced Energy Materials</i> , 2017, 7, 1602397.	19.5	273
8	Vitrimer Elastomer-Based Jigsaw Puzzle-Like Healable Triboelectric Nanogenerator for Self-Powered Wearable Electronics. <i>Advanced Materials</i> , 2018, 30, e1705918.	21.0	265
9	Actively Perceiving and Responsive Soft Robots Enabled by Self-Powered, Highly Extensible, and Highly Sensitive Triboelectric Proximity and Pressure Sensing Skins. <i>Advanced Materials</i> , 2018, 30, e1801114.	21.0	254
10	Shape Memory Polymers for Body Motion Energy Harvesting and Self-Powered Mechanosensing. <i>Advanced Materials</i> , 2018, 30, 1705195.	21.0	249
11	Harvesting Broad Frequency Band Blue Energy by a Triboelectric-Electromagnetic Hybrid Nanogenerator. <i>ACS Nano</i> , 2016, 10, 6526-6534.	14.6	244
12	Branch-like Hierarchical Heterostructure ($\pm\text{Fe}_2\text{O}_3/\text{TiO}_2$): A Novel Sensing Material for Trimethylamine Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12310-12316.	8.0	230
13	Versatile Core-Shell Yarn for Sustainable Biomechanical Energy Harvesting and Real-Time Human-Interactive Sensing. <i>Advanced Energy Materials</i> , 2018, 8, 1801114.	19.5	212
14	P-type Co_3O_4 nanomaterials-based gas sensor: Preparation and acetone sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 369-377.	7.8	184
15	Ethanol Gas Detection Using a Yolk-Shell (Core-Shell) $\pm\text{Fe}_2\text{O}_3$ Nanospheres as Sensing Material. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13098-13104.	8.0	170
16	Cross-linked p-type Co_3O_4 octahedral nanoparticles in 1D n-type TiO_2 nanofibers for high-performance sensing devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10022.	10.3	135
17	Hybrid $\text{Co}_3\text{O}_4/\text{SnO}_2$ Core-Shell Nanospheres as Real-Time Rapid-Response Sensors for Ammonia Gas. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6539-6545.	8.0	134
18	Hollow ZnSnO_3 Cubes with Controllable Shells Enabling Highly Efficient Chemical Sensing Detection of Formaldehyde Vapors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14525-14533.	8.0	110

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19	Enhanced sensing performance of the Co ₃ O ₄ hierarchical nanorods to NH ₃ gas. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 449-455.	7.8	104
20	Design of CuO@TiO ₂ heterostructure nanofibers and their sensing performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9030-9034.	10.3	94
21	Facile synthesis and enhanced ethanol sensing properties of the brush-like ZnO@TiO ₂ heterojunctions nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 21-26.	7.8	92
22	Nanoparticles-assembled Co ₃ O ₄ nanorods p-type nanomaterials: One-pot synthesis and toluene-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 1-6.	7.8	90
23	P-type octahedral Cu ₂ O particles with exposed {111} facets and superior CO sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 211-217.	7.8	83
24	Template-free synthesized hollow NiO@SnO ₂ nanospheres with high gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2012, 164, 90-95.	7.8	73
25	Toluene and ethanol sensing performances of pristine and PdO-decorated flower-like ZnO structures. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 323-329.	7.8	73
26	Concave Cu ₂ O octahedral nanoparticles as an advanced sensing material for benzene (C ₆ H ₆) and nitrogen dioxide (NO ₂) detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 311-317.	7.8	72
27	Structure-driven efficient NiFe ₂ O ₄ materials for ultra-fast response electronic sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1436-1444.	7.8	65
28	Comparison of toluene sensing performances of zinc stannate with different morphology-based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 448-455.	7.8	62
29	Highly sensitive sensing platform based on ZnSnO ₃ hollow cubes for detection of ethanol. <i>Applied Surface Science</i> , 2017, 400, 262-268.	6.1	60
30	Hierarchical structure with heterogeneous phase as high performance sensing materials for trimethylamine gas detecting. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1224-1231.	7.8	55
31	Controllable and enhanced HCHO sensing performances of different-shelled ZnO hollow microspheres. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 467-473.	7.8	53
32	Synthesis of rattle-type SnO ₂ structures with porous shells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18111.	6.7	51
33	A class of hierarchical nanostructures: ZnO surface-functionalized TiO ₂ with enhanced sensing properties. <i>RSC Advances</i> , 2013, 3, 3131.	3.6	49
34	Curling-like Bi ₂ WO ₆ microdiscs with lamellar structure for enhanced gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 217-222.	7.8	44
35	Fast and real-time acetone gas sensor using hybrid ZnFe ₂ O ₄ /ZnO hollow spheres. <i>RSC Advances</i> , 2016, 6, 66738-66744.	3.6	37
36	Constructing p-n heterostructures for efficient structure-driven ethanol sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 745-753.	7.8	34

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37	The synthesis and fast ethanol sensing properties of core-shell SnO ₂ @ZnO composite nanospheres using carbon spheres as templates. <i>New Journal of Chemistry</i> , 2016, 40, 6796-6802.	2.8	26
38	Ultrahigh-sensitive sensing platform based on p-type dumbbell-like Co ₃ O ₄ network. <i>Applied Surface Science</i> , 2017, 426, 951-956.	6.1	21
39	Fast response/recovery performance of comb-like Co ₃ O ₄ nanostructure. <i>RSC Advances</i> , 2014, 4, 21115.	3.6	14