

Yang Gao

List of Publications by Year in descending order

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70
papers

3,423
citations

147801

31
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138484

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all docs

70
docs citations

70
times ranked

5020
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible organohydrogel ionic skin with Ultra-Low temperature freezing resistance and Ultra-Durable moisture retention. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 396-404.	9.4	37
2	3D Printed Reduced Graphene Oxide/Elastomer Resin Composite with Structural Modulated Sensitivity for Flexible Strain Sensor. <i>Advanced Engineering Materials</i> , 2022, 24, 2101068.	3.5	21
3	CRISPR-Cas12a assisted precise genome editing of <i>Mycobacterium neoaurum</i> . <i>New Biotechnology</i> , 2022, 66, 61-69.	4.4	8
4	A hollow tubular NiCo layered double hydroxide@Ag nanowire structure for high-power-density flexible aqueous Ni//Zn battery. <i>Journal of Energy Chemistry</i> , 2022, 70, 593-603.	12.9	24
5	Flexible microstructured pressure sensors: design, fabrication and applications. <i>Nanotechnology</i> , 2022, 33, 322002.	2.6	27
6	Femtosecond laser micro-fabricated flexible sensor arrays for simultaneous mechanical and thermal stimuli detection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 169, 108348.	5.0	18
7	Fabricating patterned polyelectrolyte brushes by dynamic microprojection lithography for selective electroless metal deposition. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50249.	2.6	0
8	3D Printing of Flexible Strain Sensor Array Based on UV-Curable Multiwalled Carbon Nanotube/Elastomer Composite. <i>Advanced Materials Technologies</i> , 2021, 6, .	5.8	72
9	Polyhedral oligomeric silsesquioxane polyimide nanocomposites for color filters and flexible conductive films. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50372.	2.6	3
10	An enzyme-free capacitive glucose sensor based on dual-network glucose-responsive hydrogel and coplanar electrode. <i>Analyst</i> , 2021, 146, 213-221.	3.5	14
11	Laser Direct Writing of Flexible Sensor Arrays Based on Carbonized Carboxymethylcellulose and Its Composites for Simultaneous Mechanical and Thermal Stimuli Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10171-10180.	8.0	24
12	High-performance strain sensors based on bilayer carbon black/PDMS hybrids. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 514-520.	21.1	70
13	Localization and Imaging of Micro-Cracks Using Nonlinear Lamb Waves with Imperfect Group-Velocity Matching. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8069.	2.5	5
14	POSS Polyimide Sealed Flexible Triple-Junction GaAs Thin-Film Solar Cells for Space Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2100603.	5.8	7
15	Low-Temperature Wearable Strain Sensor Based on a Silver Nanowires/Graphene Composite with a Near-Zero Temperature Coefficient of Resistance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55307-55318.	8.0	41
16	POSS Polyimide Sealed Flexible Triple-Junction GaAs Thin-Film Solar Cells for Space Applications (Adv.) <i>TJ ETQq0,0,0 rgBT /Overlock 1</i>	5.8	1
17	A wearable, waterproof, and highly sensitive strain sensor based on three-dimensional graphene/carbon black/Ni sponge for wirelessly monitoring human motions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2074-2085.	5.5	67
18	Skin-Contactable and Antifreezing Strain Sensors Based on Bilayer Hydrogels. <i>Chemistry of Materials</i> , 2020, 32, 8938-8946.	6.7	77

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19	Maskless Formation of Conductive Carbon Layer on Leather for Highly Sensitive Flexible Strain Sensors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000549.	5.1	14
20	Laser direct writing of carbonaceous sensors on cardboard for human health and indoor environment monitoring. <i>RSC Advances</i> , 2020, 10, 18694-18703.	3.6	12
21	Mask-Free Preparation of Patterned Carbonized Carboxymethyl Cellulose on Fabrics for Flexible Electronics. <i>ACS Applied Electronic Materials</i> , 2020, 2, 855-862.	4.3	20
22	Dielectric elastomer actuators based on stretchable and self-healable hydrogel electrodes. <i>Royal Society Open Science</i> , 2019, 6, 182145.	2.4	20
23	3D-Printed Coaxial Fibers for Integrated Wearable Sensor Skin. <i>Advanced Materials Technologies</i> , 2019, 4, 1900504.	5.8	58
24	Wearable pressure sensor using UV-patternable silver nanowire/polydimethylsiloxane composite. <i>Materials Research Express</i> , 2019, 6, 095087.	1.6	10
25	Spatiotemporal control of polymer brush formation through photoinduced radical polymerization regulated by DMD light modulation. <i>Lab on A Chip</i> , 2019, 19, 2651-2662.	6.0	34
26	Extrusion printing of carbon nanotube-coated elastomer fiber with microstructures for flexible pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2019, 299, 111625.	4.1	27
27	Highly Stretchable and Self-Healable MXene/Polyvinyl Alcohol Hydrogel Electrode for Wearable Capacitive Electronic Skin. <i>Advanced Electronic Materials</i> , 2019, 5, 1900285.	5.1	288
28	Laser micro-structured pressure sensor with modulated sensitivity for electronic skins. <i>Nanotechnology</i> , 2019, 30, 325502.	2.6	72
29	Stretchable Electronics: Nylon Fabric Enabled Tough and Flaw Insensitive Stretchable Electronics (<i>Adv. Mater. Technol.</i> 4/2019). <i>Advanced Materials Technologies</i> , 2019, 4, 1970024.	5.8	0
30	Laser Direct Writing of Ultrahigh Sensitive SiC-Based Strain Sensor Arrays on Elastomer toward Electronic Skins. <i>Advanced Functional Materials</i> , 2019, 29, 1806786.	14.9	147
31	Nylon Fabric Enabled Tough and Flaw Insensitive Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800466.	5.8	4
32	A wearable pressure sensor based on ultra-violet/ozone microstructured carbon nanotube/polydimethylsiloxane arrays for electronic skins. <i>Nanotechnology</i> , 2018, 29, 115502.	2.6	94
33	Highly sensitive strain sensors based on fragmented carbon nanotube/polydimethylsiloxane composites. <i>Nanotechnology</i> , 2018, 29, 235501.	2.6	64
34	Simulation on impact response of FMLs: effect of fiber stacking sequence, thickness, and incident angle. <i>Science and Engineering of Composite Materials</i> , 2018, 25, 621-631.	1.4	13
35	Improved adhesion between nickel-titanium SMA and polymer matrix via acid treatment and nano-silica particles coating. <i>Advanced Composite Materials</i> , 2018, 27, 331-348.	1.9	9
36	Self-assembled 3D flower-like Fe ₃ O ₄ /C architecture with superior lithium ion storage performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24940-24948.	10.3	88

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37	Open-air combustion synthesis of three-dimensional graphene for oil absorption and energy storage. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 238-239, 149-154.	3.5	8
38	Acid-Interface Engineering of Carbon Nanotube/Elastomers with Enhanced Sensitivity for Stretchable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37760-37766.	8.0	83
39	Flexible pressure sensor using carbon nanotube-wrapped polydimethylsiloxane microspheres for tactile sensing. <i>Sensors and Actuators A: Physical</i> , 2018, 284, 260-265.	4.1	67
40	Laser-microengineered flexible electrodes with enhanced sensitivity for wearable pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2018, 281, 124-129.	4.1	31
41	Sandpaper-molded wearable pressure sensor for electronic skins. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 205-209.	4.1	43
42	Thermally Triggered Mechanically Destructive Electronics Based On Electrospun Poly(μ -caprolactone) Nanofibrous Polymer Films. <i>Scientific Reports</i> , 2017, 7, 947.	3.3	24
43	Engineering of carbon nanotube/polydimethylsiloxane nanocomposites with enhanced sensitivity for wearable motion sensors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11092-11099.	5.5	112
44	High-performance wearable strain sensors based on fragmented carbonized melamine sponges for human motion detection. <i>Nanoscale</i> , 2017, 9, 17948-17956.	5.6	75
45	Moisture-triggered physically transient electronics. <i>Science Advances</i> , 2017, 3, e1701222.	10.3	122
46	High Fidelity Tape Transfer Printing Based On Chemically Induced Adhesive Strength Modulation. <i>Scientific Reports</i> , 2015, 5, 16133.	3.3	34
47	Laser-based micro/nanofabrication in one, two and three dimensions. <i>Frontiers of Optoelectronics</i> , 2015, 8, 351-378.	3.7	36
48	Crack-Insensitive Wearable Electronics Enabled Through High-Strength Kevlar Fabrics. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015, 5, 1230-1236.	2.5	9
49	Oxidative peeling of carbon black nanoparticles. <i>RSC Advances</i> , 2015, 5, 92539-92544.	3.6	4
50	Low-Temperature Growth of Crystalline Gallium Nitride Films Using Vibrational Excitation of Ammonia Molecules in Laser-Assisted Metalorganic Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2014, 14, 6248-6253.	3.0	17
51	Enhancement of ansamitocin P-3 production in <i>Actinosynnema pretiosum</i> by a synergistic effect of glycerol and glucose. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 143-152.	3.0	20
52	Highly Efficient and Recyclable Carbon Soot Sponge for Oil Cleanup. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5924-5929.	8.0	157
53	Direct writing of graphene patterns on insulating substrates under ambient conditions. <i>Scientific Reports</i> , 2014, 4, 4892.	3.3	78
54	On- and off-resonance vibrational excitations of ethylene molecules in laser-assisted combustion diamond synthesis. , 2014, , .		0

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55	Single-Step Formation of Graphene on Dielectric Surfaces. <i>Advanced Materials</i> , 2013, 25, 630-634.	21.0	75
56	High-performance flexible solid-state supercapacitors based on MnO ₂ -decorated nanocarbon electrodes. <i>RSC Advances</i> , 2013, 3, 20613.	3.6	36
57	Seed-Free Growth of Diamond Patterns on Silicon Predefined by Femtosecond Laser Direct Writing. <i>Crystal Growth and Design</i> , 2013, 13, 716-722.	3.0	6
58	Chemical activation of carbon nano-onions for high-rate supercapacitor electrodes. <i>Carbon</i> , 2013, 51, 52-58.	10.3	242
59	Three-dimensional sub-wavelength fabrication by integration of additive and subtractive femtosecond-laser direct writing. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1499, 1.	0.1	0
60	Carbon Nano-Onion Ultracapacitor Model. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1541, 81801.	0.1	0
61	Simultaneous additive and subtractive three-dimensional nanofabrication using integrated two-photon polymerization and multiphoton ablation. <i>Light: Science and Applications</i> , 2012, 1, e6-e6.	16.6	158
62	Laser-assisted nanofabrication of carbon nanostructures. <i>Journal of Laser Applications</i> , 2012, 24, .	1.7	17
63	Production of few-layer graphene through liquid-phase pulsed laser exfoliation of highly ordered pyrolytic graphite. <i>Applied Surface Science</i> , 2012, 258, 9092-9095.	6.1	40
64	Three-dimensional micro/nano-fabrication by integration of additive and subtractive femtosecond-laser direct writing processes. , 2012, , .		1
65	Formation of graphene sheets through laser exfoliation of highly ordered pyrolytic graphite. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	109
66	What Can Lasers Do in the Nano-Fabrication of Carbon Nanotube Based Devices?. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1365, 1.	0.1	0
67	Fast Growth of Diamond Crystals in Open Air by Combustion Synthesis with Resonant Laser Energy Coupling. <i>Crystal Growth and Design</i> , 2010, 10, 1762-1766.	3.0	30
68	Electrosorptive desalination by carbon nanotubes and nanofibres electrodes and ion-exchange membranes. <i>Water Research</i> , 2008, 42, 4923-4928.	11.3	281
69	ELECTROSORPTION OF FeCl_3 SOLUTIONS WITH CARBON NANOTUBES AND NANOFIBERS FILM ELECTRODES GROWN ON GRAPHITE SUBSTRATES. <i>Surface Review and Letters</i> , 2007, 14, 1033-1037.	1.1	17
70	Charge Manipulation Based Selective Functionalization of 3D Printed Structures for Functional Devices. <i>Advanced Materials Technologies</i> , 0, , 2100694.	5.8	1