

# Baogang Quan

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,140  
citations

257450

24  
h-index

233421

45  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3698  
citing authors

#	ARTICLE	IF	CITATIONS
1	An All-Solid-State Flexible Micro-supercapacitor on a Chip. <i>Advanced Energy Materials</i> , 2011, 1, 1068-1072.	19.5	344
2	Alkanethiol-functionalized terahertz metamaterial as label-free, highly-sensitive and specific biosensor. <i>Biosensors and Bioelectronics</i> , 2013, 42, 626-631.	10.1	128
3	Design of a polarization insensitive multiband terahertz metamaterial absorber. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 195103.	2.8	111
4	Demonstration of Orbital Angular Momentum Multiplexing and Demultiplexing Based on a Metasurface in the Terahertz Band. <i>ACS Photonics</i> , 2018, 5, 1726-1732.	6.6	111
5	In-situ visualization of lithium plating in all-solid-state lithium-metal battery. <i>Nano Energy</i> , 2019, 63, 103895.	16.0	109
6	Electro-plating and stripping behavior on lithium metal electrode with ordered three-dimensional structure. <i>Nano Energy</i> , 2018, 45, 463-470.	16.0	81
7	Decorating Polypyrrole Nanotubes with Au Nanoparticles by an In Situ Reduction Process. <i>Macromolecular Rapid Communications</i> , 2009, 30, 936-940.	3.9	66
8	Self-Assembled Organic Functional Nanotubes and Nanorods and Their Sensory Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3929-3933.	3.1	66
9	Electromechanically reconfigurable optical nano-kirigami. <i>Nature Communications</i> , 2021, 12, 1299.	12.8	61
10	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. <i>Scientific Reports</i> , 2015, 5, 16019.	3.3	59
11	Polarization multiplexing for double images display. <i>Opto-Electronic Advances</i> , 2019, 2, 18002901-18002906.	13.3	56
12	Self-referenced sensing based on terahertz metamaterial for aqueous solutions. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	49
13	Graphene "metamaterial hybridization for enhanced terahertz response. <i>Carbon</i> , 2014, 78, 102-112.	10.3	47
14	Wavelength de-multiplexing metasurface hologram. <i>Scientific Reports</i> , 2016, 6, 35657.	3.3	41
15	Anisotropic expansion and size-dependent fracture of silicon nanotubes during lithiation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15113-15122.	10.3	41
16	Ultrafast carrier transfer evidencing graphene electromagnetically enhanced ultrasensitive SERS in graphene/Ag-nanoparticles hybrid. <i>Carbon</i> , 2017, 122, 98-105.	10.3	40
17	Nanocracking and metallization doubly defined large-scale 3D plasmonic sub-10 nm-gap arrays as extremely sensitive SERS substrates. <i>Nanoscale</i> , 2018, 10, 3171-3180.	5.6	38
18	Electrically Triggered VO <sub>2</sub> Reconfigurable Metasurface for Amplitude and Phase Modulation of Terahertz Wave. <i>Journal of Lightwave Technology</i> , 2021, 39, 3488-3494.	4.6	34

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19	Wafer-Scale Double-Layer Stacked Au/Al <sub>2</sub> O <sub>3</sub> @Au Nanosphere Structure with Tunable Nanospacing for Surface-Enhanced Raman Scattering. <i>Small</i> , 2014, 10, 3933-3942.	10.0	33
20	Design and fabrication of a diffractive optical element as a spectrum-splitting solar concentrator for lateral multijunction solar cells. <i>Applied Optics</i> , 2013, 52, 2312.	1.8	32
21	Nonlinear THz Nano Metasurfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2100463.	14.9	31
22	One-Pot Synthesis of Liquid Hg/Solid $\delta$ -HgS Metal-Semiconductor Heterostructures with Unique Electrical Properties. <i>ACS Nano</i> , 2011, 5, 2224-2230.	14.6	30
23	Single crystal diamond UV detector with a groove-shaped electrode structure and enhanced sensitivity. <i>Sensors and Actuators A: Physical</i> , 2017, 259, 121-126.	4.1	30
24	A Well-Defined Silicon Nanocone-Carbon Structure for Demonstrating Exclusive Influences of Carbon Coating on Silicon Anode of Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2806-2814.	8.0	29
25	Temperature and velocity dependent friction of a microscale graphite-DLC heterostructure. <i>Friction</i> , 2020, 8, 462-470.	6.4	27
26	Polarization-dependent terahertz metamaterial absorber with high absorption in two orthogonal directions. <i>Optics Communications</i> , 2014, 332, 321-326.	2.1	26
27	Conducting Polypyrrole Conical Nanocontainers: Formation Mechanism and Voltage Switchable Property. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1335-1340.	3.9	25
28	Characterization of a Microscale Superlubric Graphite Interface. <i>Physical Review Letters</i> , 2020, 125, 026101.	7.8	25
29	Broadband and Polarization-Insensitive Absorption Based on a Set of Multisized Fabry-Perot-like Resonators. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13856-13862.	3.1	24
30	Vertical few-layer graphene/metalized Si-nanocone arrays as 3D electrodes for solid-state supercapacitors with large areal capacitance and superior rate capability. <i>Applied Surface Science</i> , 2017, 404, 238-245.	6.1	23
31	In Vitro Model on Glass Surfaces for Complex Interactions between Different Types of Cells. <i>Langmuir</i> , 2010, 26, 17790-17794.	3.5	22
32	Patterned Growth of Polyaniline Nanowire Arrays on a Flexible Substrate for High-Performance Gas Sensing. <i>Small</i> , 2011, 7, 3287-3291.	10.0	22
33	Optical modulation of terahertz behavior in silicon with structured surfaces. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	22
34	Morphology Modulating the Wettability of a Diamond Film. <i>Langmuir</i> , 2014, 30, 12647-12653.	3.5	22
35	Effect of inhomogeneity and plasmons on terahertz radiation from GaAs (100) surface coated with rough Au film. <i>Applied Surface Science</i> , 2013, 285, 853-857.	6.1	21
36	Circular-Photon-Drag-Effect-Induced Elliptically Polarized Terahertz Emission from Vertically Grown Graphene. <i>Physical Review Applied</i> , 2019, 12, .	3.8	19

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37	Sensing self-assembled alkanethiols by differential transmission interrogation with terahertz metamaterials. <i>Applied Optics</i> , 2013, 52, 4877.	1.8	16
38	Controlled fabrication of periodically high-aspect ratio CVD-diamond nanopillar arrays by pure oxygen etching process. <i>Microelectronic Engineering</i> , 2016, 155, 61-66.	2.4	14
39	Large-scale Ag-nanoparticles/Al <sub>2</sub> O <sub>3</sub> /Au-nanograting hybrid nanostructure for surface-enhanced Raman scattering. <i>Microelectronic Engineering</i> , 2017, 172, 1-7.	2.4	14
40	Side-by-side observation of the interfacial improvement of vertical graphene-coated silicon nanocone anodes for lithium-ion batteries by patterning technology. <i>Nanoscale</i> , 2017, 9, 17241-17247.	5.6	14
41	Ultrafast terahertz response in photoexcited, vertically grown few-layer graphene. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	13
42	Direct Experimental Evidence of Biomimetic Surfaces with Chemical Modifications Interfering with Adhesive Protein Adsorption. <i>Molecules</i> , 2019, 24, 27.	3.8	13
43	Visible transmission response of nanoscale complementary metamaterials for sensing applications. <i>Nanotechnology</i> , 2012, 23, 275503.	2.6	12
44	Rapid templated fabrication of large-scale, high-density metallic nanocone arrays and SERS applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9987-9992.	5.5	12
45	HapBead: On-Skin Microfluidic Haptic Interface using Tunable Bead. , 2020, , .		12
46	Tunable surface-plasmon-polariton-like modes based on graphene metamaterials in terahertz region. <i>Computational Materials Science</i> , 2016, 117, 544-548.	3.0	10
47	Rapidly fabricating large-scale plasmonic silver nanosphere arrays with sub-20Ånm gap on Si-pyramids by inverted annealing for highly sensitive SERS detection. <i>RSC Advances</i> , 2017, 7, 11578-11584.	3.6	9
48	Patterned Growth of Vertically Aligned Polypyrrole Nanowire Arrays. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1998-2002.	3.9	7
49	Microfabrication and properties of the meta-materials. <i>Microelectronic Engineering</i> , 2006, 83, 1364-1367.	2.4	6
50	Fabrication of inverted pyramidal pits with Nano-opening by laser interference lithography and wet etching. <i>Microelectronic Engineering</i> , 2016, 163, 110-114.	2.4	6
51	Transport properties of ultrathin BaFe <sub>1.84</sub> Co <sub>0.16</sub> As <sub>2</sub> superconducting nanowires. <i>Superconductor Science and Technology</i> , 2018, 31, 025002.	3.5	6
52	Artificial modulation of cell width significantly affects the division time of Escherichia coli. <i>Scientific Reports</i> , 2020, 10, 17847.	3.3	4
53	High Efficiency Phase and Polarization Modulation Metasurfaces. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	4
54	Flexible THz Carrier Envelope Phase Shifter Based on Metamaterials. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	4

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55	Nonlinear THz Nano Metasurfaces: Nonlinear THz Nano Metasurfaces (Adv. Funct. Mater. 24/2021). Advanced Functional Materials, 2021, 31, 2170170.	14.9	3
56	Low-temperature electrical transport in B-doped ultrananocrystalline diamond film. Applied Physics Letters, 2014, 104, 182602.	3.3	2
57	Plasmonic Coupling: Wafer-Scale Double-Layer Stacked Au/Al <sub>2</sub> O <sub>3</sub> @Au Nanosphere Structure with Tunable Nanospacing for Surface-Enhanced Raman Scattering (Small 19/2014). Small, 2014, 10, 3932-3932.	10.0	2
58	Sensing properties of infrared nanostructured plasmonic crystals fabricated by electron beam lithography and argon ion milling. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 06FE02.	1.2	1
59	Towards Ultra-strong Terahertz Field Enhancement in Nanogap Split Ring Resonators. , 2018, , .		1
60	Silicon micropillar electrodes of lithium ion batteries used for characterizing electrolyte additives*. Chinese Physics B, 2021, 30, 068202.	1.4	1
61	Fabrication of indium tin oxide bump/pit structures on GaN-based light emitting diodes. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	1.2	0
62	Prospects Application of Polypyrrole-Based Immunosensor to Porphyromonas Gingivalis Quantification in Subgingival Plaque Samples. Clinical Laboratory, 2014, 60, 525-32.	0.5	0
63	High-resolution CW Terahertz Spectroscopy of Nanogap Terahertz Metamaterials. , 2018, , .		0
64	Strong-field Terahertz Induced Nonlinear Frequency Switching. , 2019, , .		0