

# Guosong Hong

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90  
papers

18,723  
citations

52  
h-index

100  
g-index

100  
ext. papers

21,477  
ext. citations

14.9  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
90	MoS <sub>2</sub> nanoparticles grown on graphene: an advanced catalyst for the hydrogen evolution reaction. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7296-9	16.4	3995
89	Near-infrared fluorophores for biomedical imaging. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1,	19	1255
88	A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , <b>2016</b> , 15, 235-42	27	939
87	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <i>Chemical Reviews</i> , <b>2015</b> , 115, 10816-906	68.1	902
86	Advanced zinc-air batteries based on high-performance hybrid electrocatalysts. <i>Nature Communications</i> , <b>2013</b> , 4, 1805	17.4	845
85	Oxygen reduction electrocatalyst based on strongly coupled cobalt oxide nanocrystals and carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15849-57	16.4	694
84	Multifunctional in vivo vascular imaging using near-infrared II fluorescence. <i>Nature Medicine</i> , <b>2012</b> , 18, 1841-6	50.5	677
83	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , <b>2014</b> , 8, 723-730	33.9	642
82	Ag <sub>2</sub> S quantum dot: a bright and biocompatible fluorescent nanoprobe in the second near-infrared window. <i>ACS Nano</i> , <b>2012</b> , 6, 3695-702	16.7	576
81	In vivo fluorescence imaging with Ag <sub>2</sub> S quantum dots in the second near-infrared region. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 9818-21	16.4	551
80	Syringe-injectable electronics. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 629-636	28.7	416
79	Ultrafast fluorescence imaging in vivo with conjugated polymer fluorophores in the second near-infrared window. <i>Nature Communications</i> , <b>2014</b> , 5, 4206	17.4	394
78	Tumor metastasis inhibition by imaging-guided photothermal therapy with single-walled carbon nanotubes. <i>Advanced Materials</i> , <b>2014</b> , 26, 5646-52	24	383
77	In vivo fluorescence imaging in the second near-infrared window with long circulating carbon nanotubes capable of ultrahigh tumor uptake. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10664-9	16.4	315
76	Diketopyrrolopyrrole-Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. <i>Advanced Materials</i> , <b>2015</b> , 27, 5184-90	24	256
75	Ultra-low doses of chirality sorted (6,5) carbon nanotubes for simultaneous tumor imaging and photothermal therapy. <i>ACS Nano</i> , <b>2013</b> , 7, 3644-52	16.7	249
74	LiMn(1-x)Fe(x)PO <sub>4</sub> nanorods grown on graphene sheets for ultrahigh-rate-performance lithium ion batteries. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7364-8	16.4	248

73	A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues. <i>Nature Communications</i> , <b>2018</b> , 9, 1171	17.4	242
72	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. <i>Advanced Materials</i> , <b>2016</b> , 28, 6872-9	24	240
71	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14758-62	16.4	231
70	Novel electrode technologies for neural recordings. <i>Nature Reviews Neuroscience</i> , <b>2019</b> , 20, 330-345	13.5	225
69	Biological imaging using nanoparticles of small organic molecules with fluorescence emission at wavelengths longer than 1000 nm. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13002-6	16.4	215
68	Biodistribution, pharmacokinetics and toxicology of Ag <sub>2</sub> S near-infrared quantum dots in mice. <i>Biomaterials</i> , <b>2013</b> , 34, 3639-46	15.6	205
67	Biological imaging without autofluorescence in the second near-infrared region. <i>Nano Research</i> , <b>2015</b> , 8, 3027-3034	10	201
66	Molecular imaging of biological systems with a clickable dye in the broad 800- to 1,700-nm near-infrared window. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 962-967	11.5	192
65	Stable long-term chronic brain mapping at the single-neuron level. <i>Nature Methods</i> , <b>2016</b> , 13, 875-82	21.6	184
64	Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. <i>Neuron</i> , <b>2019</b> , 104, 1039-1055.e12	13.9	168
63	General strategy for biodetection in high ionic strength solutions using transistor-based nanoelectronic sensors. <i>Nano Letters</i> , <b>2015</b> , 15, 2143-8	11.5	158
62	Wet Chemical Approaches to Patterned Arrays of Well-Aligned ZnO Nanopillars Assisted by Monolayer Colloidal Crystals. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 891-897	9.6	157
61	Bioinspired neuron-like electronics. <i>Nature Materials</i> , <b>2019</b> , 18, 510-517	27	156
60	Atomic-Precision Gold Clusters for NIR-II Imaging. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901015	24	149
59	Chirality enriched (12,1) and (11,3) single-walled carbon nanotubes for biological imaging. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 16971-4	16.4	141
58	Syringe-injectable mesh electronics integrate seamlessly with minimal chronic immune response in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5894-5899	11.5	132
57	In Vivo Fluorescence Imaging with Ag <sub>2</sub> S Quantum Dots in the Second Near-Infrared Region. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9956-9959	3.6	118
56	3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705799	24	111

55	Facile Fabrication of Two-Dimensionally Ordered Macroporous Silver Thin Films and Their Application in Molecular Sensing. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3774-3783	15.6	109
54	Metal-enhanced fluorescence of carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15920-3	16.4	100
53	Highly scalable multichannel mesh electronics for stable chronic brain electrophysiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E10046-E10055	11.5	97
52	Light-sheet microscopy in the near-infrared II window. <i>Nature Methods</i> , <b>2019</b> , 16, 545-552	21.6	93
51	A method for single-neuron chronic recording from the retina in awake mice. <i>Science</i> , <b>2018</b> , 360, 1447-1451	14.5	91
50	Syringe Injectable Electronics: Precise Targeted Delivery with Quantitative Input/Output Connectivity. <i>Nano Letters</i> , <b>2015</b> , 15, 6979-84	11.5	86
49	LiMn <sub>1-x</sub> FexPO <sub>4</sub> Nanorods Grown on Graphene Sheets for Ultrahigh-Rate-Performance Lithium Ion Batteries. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7502-7506	3.6	86
48	Mesh electronics: a new paradigm for tissue-like brain probes. <i>Current Opinion in Neurobiology</i> , <b>2018</b> , 50, 33-41	7.6	85
47	Live imaging of follicle stimulating hormone receptors in gonads and bones using near infrared II fluorophore. <i>Chemical Science</i> , <b>2017</b> , 8, 3703-3711	9.4	84
46	Nanosphere Lithography at the Gas/Liquid Interface: A General Approach toward Free-Standing High-Quality Nanonets. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 476-481	9.6	80
45	Near-infrared II fluorescence for imaging hindlimb vessel regeneration with dynamic tissue perfusion measurement. <i>Circulation: Cardiovascular Imaging</i> , <b>2014</b> , 7, 517-25	3.9	77
44	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14971-14975	14.7	72
43	Three-dimensional imaging of single nanotube molecule endocytosis on plasmonic substrates. <i>Nature Communications</i> , <b>2012</b> , 3, 700	17.4	72
42	Near-infrared-fluorescence-enhanced molecular imaging of live cells on gold substrates. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4644-8	16.4	72
41	Mesh Nanoelectronics: Seamless Integration of Electronics with Tissues. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 309-318	24.3	57
40	Sono-optogenetics facilitated by a circulation-delivered rechargeable light source for minimally invasive optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> ,	11.5	56
39	Biological Imaging Using Nanoparticles of Small Organic Molecules with Fluorescence Emission at Wavelengths Longer than 1000 nm. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13240-13244	3.6	53
38	Graphite-coated magnetic nanoparticle microarray for few-cells enrichment and detection. <i>ACS Nano</i> , <b>2012</b> , 6, 1094-101	16.7	50

37	Facile Fabrication of Honeycomb-Patterned Thin Films of Amorphous Calcium Carbonate and Mosaic Calcite. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3206-3211	9.6	48
36	Aligned-Braided Nanofibrillar Scaffold with Endothelial Cells Enhances Arteriogenesis. <i>ACS Nano</i> , <b>2015</b> , 9, 6900-8	16.7	46
35	In Vivo Contactless Brain Nanothermometry. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1806088	15.6	46
34	Syringe-Injectable Electronics with a Plug-and-Play Input/Output Interface. <i>Nano Letters</i> , <b>2017</b> , 17, 5836-5842	15.4	44
33	Optical Properties of Single-Walled Carbon Nanotubes Separated in a Density Gradient; Length, Bundling, and Aromatic Stacking Effects. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 19569-19575	3.8	41
32	Diketopyrrolopyrrole (DPP)-Based Donor-Acceptor Polymers for Selective Dispersion of Large-Diameter Semiconducting Carbon Nanotubes. <i>Small</i> , <b>2015</b> , 11, 2946-54	11	39
31	Multiplexed cytokine detection on plasmonic gold substrates with enhanced near-infrared fluorescence. <i>Nano Research</i> , <b>2013</b> , 6, 113-120	10	36
30	Seeding-growth of helical mesoporous silica nanofibers templated by achiral cationic surfactant. <i>Langmuir</i> , <b>2009</b> , 25, 6040-4	4	36
29	Short channel field-effect transistors from highly enriched semiconducting carbon nanotubes. <i>Nano Research</i> , <b>2012</b> , 5, 388-394	10	35
28	Graphene nanoribbons under mechanical strain. <i>Advanced Materials</i> , <b>2015</b> , 27, 303-9	24	31
27	Plasmonic micro-beads for fluorescence enhanced, multiplexed protein detection with flow cytometry. <i>Chemical Science</i> , <b>2014</b> , 5, 4070-4075	9.4	31
26	Targeting Hypoxic Tumors with Hybrid Nanobullets for Oxygen-Independent Synergistic Photothermal and Thermodynamic Therapy. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 99	19.5	31
25	Dispersion of High-Purity Semiconducting Arc-Discharged Carbon Nanotubes Using Backbone Engineered Diketopyrrolopyrrole (DPP)-Based Polymers. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500299	6.4	30
24	An integrated peptide-antigen microarray on plasmonic gold films for sensitive human antibody profiling. <i>PLoS ONE</i> , <b>2013</b> , 8, e71043	3.7	26
23	Tissue-like Neural Probes for Understanding and Modulating the Brain. <i>Biochemistry</i> , <b>2018</b> , 57, 3995-4004	4.2	24
22	Bioinspired Materials for Bioelectronic Neural Interfaces. <i>Matter</i> , <b>2020</b> , 3, 1087-1113	12.7	20
21	Nanoenabled Direct Contact Interfacing of Syringe-Injectable Mesh Electronics. <i>Nano Letters</i> , <b>2019</b> , 19, 5818-5826	11.5	19
20	Single Chirality (6,4) Single-Walled Carbon Nanotubes for Fluorescence Imaging with Silicon Detectors. <i>Small</i> , <b>2015</b> , 11, 6325-30	11	19

19	Syringe-injectable Mesh Electronics for Stable Chronic Rodent Electrophysiology. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	18
18	In Vivo Fluorescence Imaging in the Second Near-Infrared Window Using Carbon Nanotubes. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1444, 167-81	1.4	16
17	Advanced One- and Two-Dimensional Mesh Designs for Injectable Electronics. <i>Nano Letters</i> , <b>2019</b> , 19, 4180-4187	11.5	15
16	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. <i>Nature Electronics</i> , <b>2021</b> , 4, 653-663	28.4	14
15	How is flexible electronics advancing neuroscience research?. <i>Biomaterials</i> , <b>2021</b> , 268, 120559	15.6	13
14	Seeing the sound. <i>Science</i> , <b>2020</b> , 369, 638	33.3	12
13	Graphite oxide nanoparticles with diameter greater than 20 nm are biocompatible with mouse embryonic stem cells and can be used in a tissue engineering system. <i>Small</i> , <b>2014</b> , 10, 1479-84	11	11
12	Biomimetic morphogenesis of micropottery: helical coiling of mesostructured silica nanofibers. <i>Soft Matter</i> , <b>2011</b> , 7, 9624	3.6	5
11	Near-Infrared-Fluorescence-Enhanced Molecular Imaging of Live Cells on Gold Substrates. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4740-4744	3.6	4
10	Nanotransducers for Wireless Neuromodulation. <i>Matter</i> , <b>2021</b> , 4, 1484-1510	12.7	3
9	Conjugated Polymers Enable a Liquid Retinal Prosthesis. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 961-964	14.8	2
8	Graphene: Graphene Nanoribbons Under Mechanical Strain (Adv. Mater. 2/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 392-392	24	2
7	Single-cell profiles of retinal neurons differing in resilience to injury reveal neuroprotective genes		1
6	Through-scalp deep-brain stimulation in tether-free, naturally-behaving mice with widefield NIR-II illumination		1
5	An All-in-One Catheter: Surgery of the Future. <i>Matter</i> , <b>2020</b> , 3, 1829-1831	12.7	1
4	All-Tissue-like Multifunctional Optoelectronic Mesh for Deep-Brain Modulation and Mapping. <i>Nano Letters</i> , <b>2021</b> , 21, 3184-3190	11.5	1
3	Differential Heating of Metal Nanostructures at Radio Frequencies. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	1
2	On the feasibility of wireless radio frequency ablation using nanowire antennas. <i>APL Materials</i> , <b>2021</b> , 9, 071103	5.7	1

- 1 Learning from the brain's architecture: bioinspired strategies towards implantable neural interfaces. *Current Opinion in Biotechnology*, **2021**, 72, 8-12 11.4 ○