

Guanzhou Zhu

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163
papers

34,855
citations

81
h-index

169
g-index

169
ext. papers

39,513
ext. citations

13.8
avg, IF

7.55
L-index

#	Paper	IF	Citations
163	Self-oriented regular arrays of carbon nanotubes and their field emission properties. <i>Science</i> , 1999 , 283, 512-4	33.3	2685
162	Noncovalent sidewall functionalization of single-walled carbon nanotubes for protein immobilization. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3838-9	16.4	2249
161	Carbon nanotubes: synthesis, integration, and properties. <i>Accounts of Chemical Research</i> , 2002 , 35, 1035-43	24.3	1597
160	An ultrafast rechargeable aluminium-ion battery. <i>Nature</i> , 2015 , 520, 325-8	50.4	1522
159	Near-infrared fluorophores for biomedical imaging. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	1255
158	Nanoscale nickel oxide/nickel heterostructures for active hydrogen evolution electrocatalysis. <i>Nature Communications</i> , 2014 , 5, 4695	17.4	1170
157	A mini review of NiFe-based materials as highly active oxygen evolution reaction electrocatalysts. <i>Nano Research</i> , 2015 , 8, 23-39	10	984
156	A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , 2016 , 15, 235-42	27	939
155	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <i>Chemical Reviews</i> , 2015 , 115, 10816-906	68.1	902
154	Hysteresis Caused by Water Molecules in Carbon Nanotube Field-Effect Transistors. <i>Nano Letters</i> , 2003 , 3, 193-198	11.5	808
153	Functionalization of Carbon Nanotubes for Biocompatibility and Biomolecular Recognition. <i>Nano Letters</i> , 2002 , 2, 285-288	11.5	795
152	Large Scale CVD Synthesis of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6484-6492	3.4	727
151	TiO ₂ nanocrystals grown on graphene as advanced photocatalytic hybrid materials. <i>Nano Research</i> , 2010 , 3, 701-705	10	646
150	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , 2014 , 8, 723-730	33.9	642
149	Growth of Single-Walled Carbon Nanotubes from Discrete Catalytic Nanoparticles of Various Sizes. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 11424-11431	3.4	595
148	A mini review on nickel-based electrocatalysts for alkaline hydrogen evolution reaction. <i>Nano Research</i> , 2016 , 9, 28-46	10	568
147	Spatially resolving edge states of chiral graphene nanoribbons. <i>Nature Physics</i> , 2011 , 7, 616-620	16.2	557

146	Modulated chemical doping of individual carbon nanotubes. <i>Science</i> , 2000 , 290, 1552-5	33.3	552
145	Polymer functionalization for air-stable n-type carbon nanotube field-effect transistors. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11512-3	16.4	524
144	Electric-field-directed growth of aligned single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2001 , 79, 3155-3157	3.4	497
143	Carbon Nanotube Field-Effect Transistors with Integrated Ohmic Contacts and High- κ Gate Dielectrics. <i>Nano Letters</i> , 2004 , 4, 447-450	11.5	430
142	Ultrafast fluorescence imaging in vivo with conjugated polymer fluorophores in the second near-infrared window. <i>Nature Communications</i> , 2014 , 5, 4206	17.4	394
141	Rechargeable LiO ₂ batteries with a covalently coupled MnCo ₂ O ₄ /graphene hybrid as an oxygen cathode catalyst. <i>Energy and Environmental Science</i> , 2012 , 5, 7931	35.4	372
140	Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. <i>Nature Communications</i> , 2017 , 8, 14283	17.4	358
139	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene. <i>Nature Communications</i> , 2015 , 6, 10035	17.4	351
138	Advanced asymmetrical supercapacitors based on graphene hybrid materials. <i>Nano Research</i> , 2011 , 4, 729-736	10	349
137	Formation of metal nanowires on suspended single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2000 , 77, 3015-3017	3.4	337
136	3D Freeze-Casting of Cellular Graphene Films for Ultrahigh-Power-Density Supercapacitors. <i>Advanced Materials</i> , 2016 , 28, 6719-26	24	335
135	A high quantum yield molecule-protein complex fluorophore for near-infrared II imaging. <i>Nature Communications</i> , 2017 , 8, 15269	17.4	320
134	Molecular photodesorption from single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2001 , 79, 2258-2260	3.4	319
133	Full and Modulated Chemical Gating of Individual Carbon Nanotubes by Organic Amine Compounds. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2890-2893	3.4	313
132	Near-Infrared-II Molecular Dyes for Cancer Imaging and Surgery. <i>Advanced Materials</i> , 2019 , 31, e1900321-24	17.4	305
131	Direct Evidence for Coupled Surface and Concentration Quenching Dynamics in Lanthanide-Doped Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3275-3282	16.4	299
130	Boosting the down-shifting luminescence of rare-earth nanocrystals for biological imaging beyond 1500 nm. <i>Nature Communications</i> , 2017 , 8, 737	17.4	280
129	3D Graphitic Foams Derived from Chloroaluminate Anion Intercalation for Ultrafast Aluminum-Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 9218-9222	24	256

128	Donor Engineering for NIR-II Molecular Fluorophores with Enhanced Fluorescent Performance. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1715-1724	16.4	254
127	Electric-field-aligned growth of single-walled carbon nanotubes on surfaces. <i>Applied Physics Letters</i> , 2002 , 81, 3464-3466	3.4	254
126	Rational Design of Molecular Fluorophores for Biological Imaging in the NIR-II Window. <i>Advanced Materials</i> , 2017 , 29, 1605497	24	251
125	A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues. <i>Nature Communications</i> , 2018 , 9, 1171	17.4	242
124	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. <i>Advanced Materials</i> , 2016 , 28, 6872-9	24	240
123	Integrated nanotube circuits: Controlled growth and ohmic contacting of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 1999 , 75, 627-629	3.4	239
122	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14758-62	16.4	231
121	High Coulombic efficiency aluminum-ion battery using an AlCl ₃ -urea ionic liquid analog electrolyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 834-839	11.5	227
120	Ultrafast high-capacity NiZn battery with NiAlCo-layered double hydroxide. <i>Energy and Environmental Science</i> , 2014 , 7, 2025	35.4	224
119	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6624-6629	11.5	223
118	Bright quantum dots emitting at ~1,600 nm in the NIR-IIb window for deep tissue fluorescence imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6590-6595	11.5	209
117	Integration of suspended carbon nanotube arrays into electronic devices and electromechanical systems. <i>Applied Physics Letters</i> , 2002 , 81, 913-915	3.4	205
116	Biological imaging without autofluorescence in the second near-infrared region. <i>Nano Research</i> , 2015 , 8, 3027-3034	10	201
115	Electrical measurements of individual semiconducting single-walled carbon nanotubes of various diameters. <i>Applied Physics Letters</i> , 2000 , 76, 1597-1599	3.4	200
114	In vivo molecular imaging for immunotherapy using ultra-bright near-infrared-IIb rare-earth nanoparticles. <i>Nature Biotechnology</i> , 2019 , 37, 1322-1331	44.5	198
113	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> , 2017 , 114, 962-967	11.5	192
112	Patterned growth of single-walled carbon nanotubes on full 4-inch wafers. <i>Applied Physics Letters</i> , 2001 , 79, 4571-4573	3.4	182
111	Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 11246-11255	3.4	182

110	A general route via formamide condensation to prepare atomically dispersed metal-nitrogen-carbon electrocatalysts for energy technologies. <i>Energy and Environmental Science</i> , 2019 , 12, 1317-1325	35.4	181
109	Synthesis of Ultralong and High Percentage of Semiconducting Single-walled Carbon Nanotubes. <i>Nano Letters</i> , 2002 , 2, 703-708	11.5	170
108	Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO ₂ reduction. <i>Nature Energy</i> , 2020 , 5, 684-692	62.3	151
107	Aligned graphene nanoribbons and crossbars from unzipped carbon nanotubes. <i>Nano Research</i> , 2010 , 3, 387-394	10	137
106	Blending Cr ₂ O ₃ into a NiO-Ni electrocatalyst for sustained water splitting. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11989-93	16.4	132
105	Wafer scale production of carbon nanotube scanning probe tips for atomic force microscopy. <i>Applied Physics Letters</i> , 2002 , 80, 2225-2227	3.4	120
104	Delivery of Catalytic Metal Species onto Surfaces with Dendrimer Carriers for the Synthesis of Carbon Nanotubes with Narrow Diameter Distribution. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12361-12365	3.4	120
103	In Vivo Fluorescence Imaging with Ag ₂ S Quantum Dots in the Second Near-Infrared Region. <i>Angewandte Chemie</i> , 2012 , 124, 9956-9959	3.6	118
102	A plasmonic chip for biomarker discovery and diagnosis of type 1 diabetes. <i>Nature Medicine</i> , 2014 , 20, 948-53	50.5	113
101	ELECTRICAL TRANSPORT PROPERTIES AND FIELD EFFECT TRANSISTORS OF CARBON NANOTUBES. <i>Nano</i> , 2006 , 01, 1-13	1.1	113
100	3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates. <i>Advanced Materials</i> , 2018 , 30, e1705799	24	111
99	Alkaline metal-doped n-type semiconducting nanotubes as quantum dots. <i>Applied Physics Letters</i> , 2000 , 77, 3977-3979	3.4	111
98	Electrical properties and devices of large-diameter single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 80, 1064-1066	3.4	104
97	WS ₂ nanoflakes from nanotubes for electrocatalysis. <i>Nano Research</i> , 2013 , 6, 921-928	10	95
96	Engineering manganese oxide/nanocarbon hybrid materials for oxygen reduction electrocatalysis. <i>Nano Research</i> , 2012 , 5, 718-725	10	95
95	Light-sheet microscopy in the near-infrared II window. <i>Nature Methods</i> , 2019 , 16, 545-552	21.6	93
94	Diagnosis of Zika virus infection on a nanotechnology platform. <i>Nature Medicine</i> , 2017 , 23, 548-550	50.5	92
93	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. <i>Nature Communications</i> , 2019 , 10, 3302	17.4	91

92	Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. <i>Nature Biomedical Engineering</i> , 2020 , 4, 325-334	19	90
91	Molecular Cancer Imaging in the Second Near-Infrared Window Using a Renal-Excreted NIR-II Fluorophore-Peptide Probe. <i>Advanced Materials</i> , 2018 , 30, e1800106	24	88
90	Controllable reversibility of an sp(2) to sp(3) transition of a single wall nanotube under the manipulation of an AFM tip: A nanoscale electromechanical switch?. <i>Physical Review Letters</i> , 2000 , 84, 4950-3	7.4	87
89	LiMn _{1-x} FexPO ₄ Nanorods Grown on Graphene Sheets for Ultrahigh-Rate-Performance Lithium Ion Batteries. <i>Angewandte Chemie</i> , 2011 , 123, 7502-7506	3.6	86
88	Molecular imaging in the second near-infrared window. <i>Advanced Functional Materials</i> , 2019 , 29, 1900566	5.6	85
87	Live imaging of follicle stimulating hormone receptors in gonads and bones using near infrared II fluorophore. <i>Chemical Science</i> , 2017 , 8, 3703-3711	9.4	84
86	Electroreduction of CO to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7276-7282	16.4	84
85	Efficient Formation of Iron Nanoparticle Catalysts on Silicon Oxide by Hydroxylamine for Carbon Nanotube Synthesis and Electronics. <i>Nano Letters</i> , 2003 , 3, 157-161	11.5	81
84	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2437-2442	16.4	81
83	High-Safety and High-Energy-Density Lithium Metal Batteries in a Novel Ionic-Liquid Electrolyte. <i>Advanced Materials</i> , 2020 , 32, e2001741	24	81
82	Near-Infrared IIb Fluorescence Imaging of Vascular Regeneration with Dynamic Tissue Perfusion Measurement and High Spatial Resolution. <i>Advanced Functional Materials</i> , 2018 , 28, 1803417	15.6	80
81	Co _{1-x} S _x Graphene Hybrid: A High-Performance Metal Chalcogenide Electrocatalyst for Oxygen Reduction. <i>Angewandte Chemie</i> , 2011 , 123, 11161-11164	3.6	79
80	Chemical self-assembly of graphene sheets. <i>Nano Research</i> , 2009 , 2, 336-342	10	78
79	Single walled carbon nanotubes for transport and delivery of biological cargos. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3561-3566	1.3	78
78	Near-infrared II fluorescence for imaging hindlimb vessel regeneration with dynamic tissue perfusion measurement. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 517-25	3.9	77
77	Carbon nanotubes as AFM tips: measuring DNA molecules at the liquid/solid interface. <i>Surface and Interface Analysis</i> , 1999 , 28, 8-11	1.5	75
76	An operando X-ray diffraction study of chloroaluminate anion-graphite intercalation in aluminum batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5670-5675	11.5	74
75	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie</i> , 2015 , 127, 14971-14975	3.5	72

74	Energy Migration Engineering of Bright Rare-Earth Upconversion Nanoparticles for Excitation by Light-Emitting Diodes. <i>Advanced Materials</i> , 2015 , 27, 6418-22	24	70
73	Site Activity and Population Engineering of NiRu-Layered Double Hydroxide Nanosheets Decorated with Silver Nanoparticles for Oxygen Evolution and Reduction Reactions. <i>ACS Catalysis</i> , 2019 , 9, 117-129 ^{13.1}		69
72	Hierarchical 3D Architected Ag Nanowires Shelled with NiMn-Layered Double Hydroxide as an Efficient Bifunctional Oxygen Electrocatalyst. <i>ACS Nano</i> , 2020 , 14, 1770-1782	16.7	68
71	High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip. <i>Advanced Functional Materials</i> , 2016 , 26, 7994-8002	15.6	68
70	Developing a Bright NIR-II Fluorophore with Fast Renal Excretion and Its Application in Molecular Imaging of Immune Checkpoint PD-L1. <i>Advanced Functional Materials</i> , 2018 , 28, 1804956	15.6	61
69	A theranostic agent for cancer therapy and imaging in the second near-infrared window. <i>Nano Research</i> , 2019 , 12, 273-279	10	60
68	Multifunctional FeCo-graphitic carbon nanocrystals for combined imaging, drug delivery and tumor-specific photothermal therapy in mice. <i>Nano Research</i> , 2011 , 4, 1248-1260	10	59
67	Ultrathin WS ₂ Nanoflakes as a High-Performance Electrocatalyst for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2014 , 126, 7994-7997	3.6	57
66	A novel quantitative microarray antibody capture assay identifies an extremely high hepatitis delta virus prevalence among hepatitis B virus-infected mongolians. <i>Hepatology</i> , 2017 , 66, 1739-1749	11.2	57
65	Diagnosis and prognosis of myocardial infarction on a plasmonic chip. <i>Nature Communications</i> , 2020 , 11, 1654	17.4	55
64	Nickel-coated silicon photocathode for water splitting in alkaline electrolytes. <i>Nano Research</i> , 2015 , 8, 1577-1583	10	54
63	Biological Imaging Using Nanoparticles of Small Organic Molecules with Fluorescence Emission at Wavelengths Longer than 1000 nm. <i>Angewandte Chemie</i> , 2013 , 125, 13240-13244	3.6	53
62	Edge magnetotransport fingerprints in disordered graphene nanoribbons. <i>Physical Review B</i> , 2010 , 82,	3.3	48
61	Projected performance advantage of multilayer graphene nanoribbons as a transistor channel material. <i>Nano Research</i> , 2010 , 3, 8-15	10	47
60	Rechargeable aluminum batteries: effects of cations in ionic liquid electrolytes.. <i>RSC Advances</i> , 2019 , 9, 11322-11330	3.7	44
59	Magnetic Squashing of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection. <i>Small Methods</i> , 2019 , 3, 1800474	12.8	44
58	High-Rate and Long-Cycle Stability with a Dendrite-Free Zinc Anode in an Aqueous Zn-Ion Battery Using Concentrated Electrolytes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4499-4508	6.1	43
57	Blending Cr ₂ O ₃ into a NiO/Ni Electrocatalyst for Sustained Water Splitting. <i>Angewandte Chemie</i> , 2015 , 127, 12157-12161	3.6	43

56	Ionic Liquid Analogs of AlCl ₃ with Urea Derivatives as Electrolytes for Aluminum Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1901928	15.6	41
55	A mini-review on rare-earth down-conversion nanoparticles for NIR-II imaging of biological systems. <i>Nano Research</i> , 2020 , 13, 1281-1294	10	41
54	Gating individual nanotubes and crosses with scanning probes. <i>Applied Physics Letters</i> , 2000 , 76, 2412-2414	4.4	40
53	Quantification of antibody avidities and accurate detection of SARS-CoV-2 antibodies in serum and saliva on plasmonic substrates. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1188-1196	19	40
52	Diketopyrrolopyrrole (DPP)-Based Donor-Acceptor Polymers for Selective Dispersion of Large-Diameter Semiconducting Carbon Nanotubes. <i>Small</i> , 2015 , 11, 2946-54	11	39
51	Electrochemical transformation reaction of Cu ₂ MnO in aqueous rechargeable zinc-ion batteries for high performance and long cycle life. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17595-17607	13	36
50	Multiplexed cytokine detection on plasmonic gold substrates with enhanced near-infrared fluorescence. <i>Nano Research</i> , 2013 , 6, 113-120	10	36
49	Electric-field-directed growth of carbon nanotubes in two dimensions. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 3421		36
48	Short channel field-effect transistors from highly enriched semiconducting carbon nanotubes. <i>Nano Research</i> , 2012 , 5, 388-394	10	35
47	Carrier scattering in graphene nanoribbon field-effect transistors. <i>Applied Physics Letters</i> , 2008 , 92, 2431-4	3.4	35
46	Selective and High Current CO Electro-Reduction to Multicarbon Products in Near-Neutral KCl Electrolytes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3245-3255	16.4	35
45	Highly active oxygen evolution integrated with efficient CO to CO electroreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23915-23922	11.5	33
44	Hybrid anisotropic nanostructures for dual-modal cancer imaging and image-guided chemo-thermo therapies. <i>Biomaterials</i> , 2016 , 103, 265-277	15.6	32
43	Plasmonic micro-beads for fluorescence enhanced, multiplexed protein detection with flow cytometry. <i>Chemical Science</i> , 2014 , 5, 4070-4075	9.4	31
42	Supramolecular Stacking of Doxorubicin on Carbon Nanotubes for In Vivo Cancer Therapy. <i>Angewandte Chemie</i> , 2009 , 121, 7804-7808	3.6	31
41	Effects of Concentrated Salt and Resting Protocol on Solid Electrolyte Interface Formation for Improved Cycle Stability of Anode-Free Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31962-31971	9.5	27
40	Densely aligned graphene nanoribbons at ~35 nm pitch. <i>Nano Research</i> , 2012 , 5, 292-296	10	27
39	Visible to Near-Infrared Fluorescence Enhanced Cellular Imaging on Plasmonic Gold Chips. <i>Small</i> , 2016 , 12, 457-65	11	26

38	Rational Design of High Brightness NIR-II Organic Dyes with S-D-A-D-S Structure. <i>Accounts of Materials Research</i> , 2021 , 2, 170-183	7.5	24
37	An electrodeposition approach to metal/metal oxide heterostructures for active hydrogen evolution catalysts in near-neutral electrolytes. <i>Nano Research</i> , 2019 , 12, 1431-1435	10	23
36	Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7089-7094	11.5	22
35	Multiplexed Anti-Toxoplasma IgG, IgM, and IgA Assay on Plasmonic Gold Chips: towards Making Mass Screening Possible with Dye Test Precision. <i>Journal of Clinical Microbiology</i> , 2016 , 54, 1726-1733	9.7	22
34	Rechargeable Na/Cl and Li/Cl batteries. <i>Nature</i> , 2021 , 596, 525-530	50.4	22
33	Proteoliposome-based full-length ZnT8 self-antigen for type 1 diabetes diagnosis on a plasmonic platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10196-10201	11.5	20
32	A high-performance potassium metal battery using safe ionic liquid electrolyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27847-27853	11.5	20
31	Single Chirality (6,4) Single-Walled Carbon Nanotubes for Fluorescence Imaging with Silicon Detectors. <i>Small</i> , 2015 , 11, 6325-30	11	19
30	Advancements in complementary carbon nanotube field-effect transistors		19
29	Ly108 expression distinguishes subsets of invariant NKT cells that help autoantibody production and secrete IL-21 from those that secrete IL-17 in lupus prone NZB/W mice. <i>Journal of Autoimmunity</i> , 2014 , 50, 87-98	15.5	17
28	In Vivo Fluorescence Imaging in the Second Near-Infrared Window Using Carbon Nanotubes. <i>Methods in Molecular Biology</i> , 2016 , 1444, 167-81	1.4	16
27	Scanning electron microscopy of field-emitting individual single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2004 , 85, 112-114	3.4	16
26	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 2459-2464	3.6	16
25	Deep learning for in vivo near-infrared imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	15
24	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. <i>Nature Electronics</i> , 2021 , 4, 653-663	28.4	14
23	Plasmonic gold chips for the diagnosis of <i>Toxoplasma gondii</i> , CMV, and rubella infections using saliva with serum detection precision. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019 , 38, 883-890	5.3	13
22	Electron beam stimulated field-emission from single-walled carbon nanotubes. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 3124		13
21	Validation of IgG, IgM multiplex plasmonic gold platform in French clinical cohorts for the serodiagnosis and follow-up of <i>Toxoplasma gondii</i> infection. <i>Diagnostic Microbiology and Infectious Disease</i> , 2017 , 87, 213-218	2.9	12

20	Cross-Link-Functionalized Nanoparticles for Rapid Excretion in Nanotheranostic Applications. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20552-20560	16.4	12
19	In vivo NIR-II structured-illumination light-sheet microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	11
18	Carbon Nanotubes: From Growth, Placement and Assembly Control to 60mV/decade and Sub-60 mV/decade Tunnel Transistors 2006 ,		10
17	Tuning Dynamically Formed Active Phases and Catalytic Mechanisms of Electrochemically Activated Layered Double Hydroxide for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2021 , 15, 14996-15006	16.7	10
16	Identification of the physical origin behind disorder, heterogeneity, and reconstruction and their correlation with the photoluminescence lifetime in hybrid perovskite thin films. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21002-21015	13	9
15	Highly Reversible Zn Metal Anode Stabilized by Dense and Anion-Derived Passivation Layer Obtained from Concentrated Hybrid Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2103959	15.6	9
14	Resolving the Phase Instability of a Fluorinated Ether, Carbonate-Based Electrolyte for the Safe Operation of an Anode-Free Lithium Metal Battery. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10722-10733	6.1	9
13	Carbon Nanotubes-Potent Carriers for Targeted Drug Delivery in Rheumatoid Arthritis. <i>Pharmaceutics</i> , 2021 , 13,	6.4	6
12	Diagnostics: High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip (Adv. Funct. Mater. 44/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 7993-7993	15.6	5
11	Circulating Tumor Cells: Magnetic Squashing of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection (Small Methods 2/2019). <i>Small Methods</i> , 2019 , 3, 1970004	12.8	4
10	Near-Infrared-Fluorescence-Enhanced Molecular Imaging of Live Cells on Gold Substrates. <i>Angewandte Chemie</i> , 2011 , 123, 4740-4744	3.6	4
9	Theoretical Investigations on Thermal Light Emission From Metallic Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 682-687	2.6	3
8	Graphene: Graphene Nanoribbons Under Mechanical Strain (Adv. Mater. 2/2015). <i>Advanced Materials</i> , 2015 , 27, 392-392	24	2
7	Carbon nanotube electronics 2006 ,		2
6	The Role of Metal Catalyst in Near Ambient Hydrogen Adsorption on Multi-walled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 837, 51		2
5	Cross-Link-Functionalized Nanoparticles for Rapid Excretion in Nanotheranostic Applications. <i>Angewandte Chemie</i> , 2020 , 132, 20733-20741	3.6	2
4	High-precision tumor resection down to few-cell level guided by NIR-IIb molecular fluorescence imaging.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e212371119	11.5	11
3	Innenrücktitelbild: Ultrathin WS ₂ Nanoflakes as a High-Performance Electrocatalyst for the Hydrogen Evolution Reaction (Angew. Chem. 30/2014). <i>Angewandte Chemie</i> , 2014 , 126, 8091-8091	3.6	1

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