

Yang Chai

List of Publications by Year in descending order

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279
papers

19,319
citations

9254

74
h-index

14736

127
g-index

292
all docs

292
docs citations

292
times ranked

21693
citing authors

#	ARTICLE	IF	CITATIONS
1	Optoelectronic resistive random access memory for neuromorphic vision sensors. <i>Nature Nanotechnology</i> , 2019, 14, 776-782.	15.6	783
2	Recent advances in craniofacial morphogenesis. <i>Developmental Dynamics</i> , 2006, 235, 2353-2375.	0.8	535
3	High- ϵ Electron-Mobility and Air-Stable 2D Layered PtSe ₂ FETs. <i>Advanced Materials</i> , 2017, 29, 1604230.	11.1	502
4	Smart Textile-Integrated Microelectronic Systems for Wearable Applications. <i>Advanced Materials</i> , 2020, 32, e1901958.	11.1	427
5	Extraordinarily Strong Interlayer Interaction in 2D Layered PtS ₂ . <i>Advanced Materials</i> , 2016, 28, 2399-2407.	11.1	415
6	Permeable superelastic liquid-metal fibre mat enables biocompatible and monolithic stretchable electronics. <i>Nature Materials</i> , 2021, 20, 859-868.	13.3	407
7	Near-sensor and in-sensor computing. <i>Nature Electronics</i> , 2020, 3, 664-671.	13.1	385
8	Fabrication of Nickel-Cobalt Bimetal Phosphide Nanocages for Enhanced Oxygen Evolution Catalysis. <i>Advanced Functional Materials</i> , 2018, 28, 1706008.	7.8	370
9	Secretion of Shh by a Neurovascular Bundle Niche Supports Mesenchymal Stem Cell Homeostasis in the Adult Mouse Incisor. <i>Cell Stem Cell</i> , 2014, 14, 160-173.	5.2	350
10	Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. <i>Nature Communications</i> , 2020, 11, 4066.	5.8	337
11	Fast, Self-Driven, Air-Stable, and Broadband Photodetector Based on Vertically Aligned PtSe ₂ /GaAs Heterojunction. <i>Advanced Functional Materials</i> , 2018, 28, 1705970.	7.8	314
12	The suture provides a niche for mesenchymal stem cells of craniofacial bones. <i>Nature Cell Biology</i> , 2015, 17, 386-396.	4.6	313
13	Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9142-9149.	5.2	299
14	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1806878.	7.8	286
15	CeO ₂ -Induced Interfacial Co ²⁺ Octahedral Sites and Oxygen Vacancies for Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 6484-6490.	5.5	278
16	High-responsivity UV-Vis Photodetector Based on Transferable WS ₂ Film Deposited by Magnetron Sputtering. <i>Scientific Reports</i> , 2016, 6, 20343.	1.6	230
17	Few-layer Tellurium: one-dimensional-like layered elementary semiconductor with striking physical properties. <i>Science Bulletin</i> , 2018, 63, 159-168.	4.3	207
18	Bioinspired in-sensor visual adaptation for accurate perception. <i>Nature Electronics</i> , 2022, 5, 84-91.	13.1	204

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19	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm . <i>Advanced Materials</i> , 2020, 32, e2004412.	11.1	202
20	Doping, Contact and Interface Engineering of Two-Dimensional Layered Transition Metal Dichalcogenides Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1603484.	7.8	191
21	Stretchable elastic synaptic transistors for neurologically integrated soft engineering systems. <i>Science Advances</i> , 2019, 5, eaax4961.	4.7	191
22	Low-Voltage, Optoelectronic $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{CH}_3\text{NH}_3\text{Cl}$ Memory with Integrated Sensing and Logic Operations. <i>Advanced Functional Materials</i> , 2018, 28, 1800080.	7.8	190
23	Lattice oxygen redox chemistry in solid-state electrocatalysts for water oxidation. <i>Energy and Environmental Science</i> , 2021, 14, 4647-4671.	15.6	190
24	Heterozygous loss of Six5 in mice is sufficient to cause ocular cataracts. <i>Nature Genetics</i> , 2000, 25, 110-114.	9.4	189
25	2D Layered Materials of Rare-Earth Er-Doped MoS_2 with NIR and Up-Conversion Photoluminescence. <i>Advanced Materials</i> , 2016, 28, 7472-7477.	11.1	180
26	Direct TEM observations of growth mechanisms of two-dimensional MoS_2 flakes. <i>Nature Communications</i> , 2016, 7, 12206.	5.8	179
27	Few-Layered PtS_2 Phototransistor on hBN with High Gain. <i>Advanced Functional Materials</i> , 2017, 27, 1701011.	7.8	176
28	Cellular and molecular mechanisms of tooth root development. <i>Development (Cambridge)</i> , 2017, 144, 374-384.	1.2	169
29	Carrier Type Control of WSe_2 Field-Effect Transistors by Thickness Modulation and MoO_3 Layer Doping. <i>Advanced Functional Materials</i> , 2016, 26, 4223-4230.	7.8	167
30	Modulation of the Reduction Potential of TiO_2 by Fluorination for Efficient and Selective CH_4 Generation from CO_2 Photoreduction. <i>Nano Letters</i> , 2018, 18, 3384-3390.	4.5	166
31	Controllable Growth of Large-Size Crystalline MoS_2 and Resist-Free Transfer Assisted with a Cu Thin Film. <i>Scientific Reports</i> , 2016, 5, 18596.	1.6	163
32	Morphoregulation of teeth: modulating the number, size, shape and differentiation by tuning Bmp activity. <i>Evolution & Development</i> , 2005, 7, 440-457.	1.1	159
33	Perovskite Photovoltachromic Supercapacitor with All-Transparent Electrodes. <i>ACS Nano</i> , 2016, 10, 5900-5908.	7.3	159
34	A long-term corrosion barrier with an insulating boron nitride monolayer. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5044-5050.	5.2	159
35	Fate of HERS during tooth root development. <i>Developmental Biology</i> , 2009, 334, 22-30.	0.9	156
36	Tuneable complementary metamaterial structures based on graphene for single and multiple transparency windows. <i>Scientific Reports</i> , 2014, 4, 6128.	1.6	151

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37	Graphene-Draped Semiconductors for Enhanced Photocorrosion Resistance and Photocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 4144-4151.	6.6	149
38	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. <i>Science Advances</i> , 2017, 3, e1701186.	4.7	146
39	Epidemiology, Etiology, and Treatment of Isolated Cleft Palate. <i>Frontiers in Physiology</i> , 2016, 7, 67.	1.3	143
40	Optoelectronic Perovskite Synapses for Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2020, 30, 1908901.	7.8	142
41	In-sensor computing for machine vision. <i>Nature</i> , 2020, 579, 32-33.	13.7	138
42	Carbon nanotube thermal interface material for high-brightness light-emitting-diode cooling. <i>Nanotechnology</i> , 2008, 19, 215706.	1.3	135
43	Enhanced Electrocatalytic Hydrogen Evolution Activity in Single-Atom Pt-Decorated VS ₂ Nanosheets. <i>ACS Nano</i> , 2020, 14, 5600-5608.	7.3	135
44	Remarkably Enhanced Hydrogen Generation of Organolead Halide Perovskites via Piezocatalysis and Photocatalysis. <i>Advanced Energy Materials</i> , 2019, 9, 1901801.	10.2	134
45	Self-Driven Metal-Semiconductor-Metal WSe ₂ Photodetector with Asymmetric Contact Geometries. <i>Advanced Functional Materials</i> , 2018, 28, 1802954.	7.8	131
46	Standards for the Characterization of Endurance in Resistive Switching Devices. <i>ACS Nano</i> , 2021, 15, 17214-17231.	7.3	128
47	Smad4-Shh-Nfic signaling cascade-mediated epithelial-mesenchymal interaction is crucial in regulating tooth root development. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1167-1178.	3.1	124
48	Low voltage and high ON/OFF ratio field-effect transistors based on CVD MoS ₂ and ultra high-k gate dielectric PZT. <i>Nanoscale</i> , 2015, 7, 8695-8700.	2.8	121
49	Mandible and Tongue Development. <i>Current Topics in Developmental Biology</i> , 2015, 115, 31-58.	1.0	118
50	A rectification-free piezo-supercapacitor with a polyvinylidene fluoride separator and functionalized carbon cloth electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14963-14970.	5.2	118
51	Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a Core-Shell Nanostructure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12356-12360.	7.2	118
52	BMP-SHH Signaling Network Controls Epithelial Stem Cell Fate via Regulation of Its Niche in the Developing Tooth. <i>Developmental Cell</i> , 2015, 33, 125-135.	3.1	117
53	Two-Dimensional Material Membranes: An Emerging Platform for Controllable Mass Transport Applications. <i>Small</i> , 2014, 10, 4521-4542.	5.2	115
54	Prospects for tooth regeneration in the 21st century: A perspective. <i>Microscopy Research and Technique</i> , 2003, 60, 469-479.	1.2	110

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55	Effects of surface roughness of Ag thin films on surface-enhanced Raman spectroscopy of graphene: spatial nonlocality and physisorption strain. <i>Nanoscale</i> , 2014, 6, 1311-1317.	2.8	110
56	Low-Resistance Electrical Contact to Carbon Nanotubes With Graphitic Interfacial Layer. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 12-19.	1.6	105
57	Cerebral organoid and mouse models reveal a RAB39b-PI3K-mTOR pathway-dependent dysregulation of cortical development leading to macrocephaly/autism phenotypes. <i>Genes and Development</i> , 2020, 34, 580-597.	2.7	105
58	A Ternary Dumbbell Structure with Spatially Separated Catalytic Sites for Photocatalytic Overall Water Splitting. <i>Advanced Science</i> , 2020, 7, 1903568.	5.6	104
59	Modulation of noncanonical TGF- β ² signaling prevents cleft palate in <i>Tgfb2</i> mutant mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 873-885.	3.9	104
60	Atomic Vacancies Control of Pd-Based Catalysts for Enhanced Electrochemical Performance. <i>Advanced Materials</i> , 2018, 30, 1704171.	11.1	102
61	SMAD4-mediated WNT signaling controls the fate of cranial neural crest cells during tooth morphogenesis. <i>Development (Cambridge)</i> , 2011, 138, 1977-1989.	1.2	99
62	Preparation and characterization of few-layer MoS ₂ nanosheets and their good nonlinear optical responses in the PMMA matrix. <i>Nanoscale</i> , 2014, 6, 9713-9719.	2.8	98
63	Stem Cell Property of Postmigratory Cranial Neural Crest Cells and Their Utility in Alveolar Bone Regeneration and Tooth Development. <i>Stem Cells</i> , 2009, 27, 866-877.	1.4	96
64	3D printing of hydroxyapatite/tricalcium phosphate scaffold with hierarchical porous structure for bone regeneration. <i>Bio-Design and Manufacturing</i> , 2020, 3, 15-29.	3.9	96
65	Nonstoichiometric acid-base reaction as reliable synthetic route to highly stable CH ₃ NH ₃ PbI ₃ perovskite film. <i>Nature Communications</i> , 2016, 7, 13503.	5.8	94
66	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. <i>ACS Nano</i> , 2016, 10, 8980-8988.	7.3	90
67	Cell autonomous requirement for TGF- β ² signaling during odontoblast differentiation and dentin matrix formation. <i>Mechanisms of Development</i> , 2007, 124, 409-415.	1.7	88
68	Cranial Suture Regeneration Mitigates Skull and Neurocognitive Defects in Craniosynostosis. <i>Cell</i> , 2021, 184, 243-256.e18.	13.5	88
69	Phase Identification and Strong Second Harmonic Generation in Pure μ -InSe and Its Alloys. <i>Nano Letters</i> , 2019, 19, 2634-2640.	4.5	86
70	Recent Advances in GaN-Based Power HEMT Devices. <i>Advanced Electronic Materials</i> , 2021, 7, 2001045.	2.6	86
71	Highly impermeable and transparent graphene as an ultra-thin protection barrier for Ag thin films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4956.	2.7	85
72	Gli1+ Periodontium Stem Cells Are Regulated by Osteocytes and Occlusal Force. <i>Developmental Cell</i> , 2020, 54, 639-654.e6.	3.1	85

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73	2D Materials Based Optoelectronic Memory: Convergence of Electronic Memory and Optical Sensor. Research, 2019, 2019, 9490413.	2.8	85
74	Nano High-Entropy Materials: Synthesis Strategies and Catalytic Applications. Small Structures, 2020, 1, 2000033.	6.9	80
75	Real-Time Observation of the Electrode-Size-Dependent Evolution Dynamics of the Conducting Filaments in a SiO ₂ Layer. ACS Nano, 2017, 11, 4097-4104.	7.3	79
76	Nanoscale Bipolar and Complementary Resistive Switching Memory Based on Amorphous Carbon. IEEE Transactions on Electron Devices, 2011, 58, 3933-3939.	1.6	78
77	A van der Waals pn heterojunction with organic/inorganic semiconductors. Applied Physics Letters, 2015, 107, 183103.	1.5	77
78	Governing Interlayer Strain in Bismuth Nanocrystals for Efficient Ammonia Electrosynthesis from Nitrate Reduction. ACS Nano, 2022, 16, 4795-4804.	7.3	76
79	Phosphorus Incorporation into Co ₉ S ₈ Nanocages for Highly Efficient Oxygen Evolution Catalysis. Small, 2019, 15, e1904507.	5.2	75
80	Textured CH ₃ NH ₃ PbI ₃ thin film with enhanced stability for high performance perovskite solar cells. Nano Energy, 2017, 33, 485-496.	8.2	74
81	The FaceBase Consortium: A comprehensive program to facilitate craniofacial research. Developmental Biology, 2011, 355, 175-182.	0.9	72
82	Enhanced SERS Stability of R6G Molecules with Monolayer Graphene. Journal of Physical Chemistry C, 2014, 118, 11827-11832.	1.5	72
83	Neuromorphic vision sensors: Principle, progress and perspectives. Journal of Semiconductors, 2021, 42, 013105.	2.0	70
84	TGF- β 2 mediated FGF10 signaling in cranial neural crest cells controls development of myogenic progenitor cells through tissue-tissue interactions during tongue morphogenesis. Developmental Biology, 2010, 341, 186-195.	0.9	69
85	Ferroelectric-Gated Two-Dimensional-Material-Based Electron Devices. Advanced Electronic Materials, 2017, 3, 1600400.	2.6	68
86	Active site engineering of Fe- and Ni-sites for highly efficient electrochemical overall water splitting. Journal of Materials Chemistry A, 2018, 6, 21445-21451.	5.2	68
87	Valence Engineering via Dual-Cation and Boron Doping in Pyrite Selenide for Highly Efficient Oxygen Evolution. ACS Nano, 2019, 13, 11469-11476.	7.3	68
88	An Nfic hedgehog signaling cascade regulates tooth root development. Development (Cambridge), 2015, 142, 3374-82.	1.2	67
89	Indirect modulation of Shh signaling by Dlx5 affects the oral-nasal patterning of palate and rescues cleft palate in Msx1-null mice. Development (Cambridge), 2009, 136, 4225-4233.	1.2	66
90	Transforming Growth Factor- β 2 Regulates Basal Transcriptional Regulatory Machinery to Control Cell Proliferation and Differentiation in Cranial Neural Crest-derived Osteoprogenitor Cells. Journal of Biological Chemistry, 2010, 285, 4975-4982.	1.6	64

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91	Parenchymal cell proliferation and mechanisms for maintenance of granular duct and acinar cell populations in adult male mouse submandibular gland. <i>The Anatomical Record</i> , 1993, 235, 475-485.	2.3	63
92	Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Low-Power Neuromorphic In-Memory Computing. <i>Advanced Materials</i> , 2021, 33, e2008709.	11.1	63
93	In-Sensor Computing: Materials, Devices, and Integration Technologies. <i>Advanced Materials</i> , 2023, 35, .	11.1	63
94	The FaceBase Consortium: A comprehensive resource for craniofacial researchers. <i>Development (Cambridge)</i> , 2016, 143, 2677-88.	1.2	62
95	A TGF β 2-Smad4-Fgf6 signaling cascade controls myogenic differentiation and myoblast fusion during tongue development. <i>Development (Cambridge)</i> , 2012, 139, 1640-1650.	1.2	60
96	Rational design of Al ₂ O ₃ /2D perovskite heterostructure dielectric for high performance MoS ₂ phototransistors. <i>Nature Communications</i> , 2020, 11, 4266.	5.8	59
97	<i>Sox2</i> and <i>Lef-1</i> interact with <i>Pitx2</i> to regulate incisor development and stem cell renewal. <i>Development (Cambridge)</i> , 2016, 143, 4115-4126.	1.2	58
98	Two-Dimensional Antiferroelectricity in Nanostripe-Ordered \ln \ln^2 <i>Physical Review Letters</i> , 2020, 125, 047601.	2.9	58
99	Low-Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2003859.	7.8	58
100	Computational Design of Transition Metal Single-Atom Electrocatalysts on PtS ₂ for Efficient Nitrogen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20448-20455.	4.0	58
101	Tuning nonlinear optical absorption properties of WS ₂ nanosheets. <i>Nanoscale</i> , 2015, 7, 17771-17777.	2.8	57
102	BMP signaling orchestrates a transcriptional network to control the fate of mesenchymal stem cells in mice. <i>Development (Cambridge)</i> , 2017, 144, 2560-2569.	1.2	57
103	Adsorption of CO molecules on doped graphene: A first-principles study. <i>AIP Advances</i> , 2016, 6, .	0.6	56
104	Mass Transport Mechanism of Cu Species at the Metal/Dielectric Interfaces with a Graphene Barrier. <i>ACS Nano</i> , 2014, 8, 12601-12611.	7.3	55
105	Limpet Tooth-Inspired Painless Microneedles Fabricated by Magnetic Field-Assisted 3D Printing. <i>Advanced Functional Materials</i> , 2021, 31, 2003725.	7.8	54
106	Metal Substitution Steering Electron Correlations in Pyrochlore Ruthenates for Efficient Acidic Water Oxidation. <i>ACS Nano</i> , 2021, 15, 8537-8548.	7.3	54
107	Electromigration Studies of Cu/Carbon Nanotube Composite Interconnects Using Blech Structure. <i>IEEE Electron Device Letters</i> , 2008, 29, 1001-1003.	2.2	52
108	Modulation doping of transition metal dichalcogenide/oxide heterostructures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 376-381.	2.7	51

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109	Monolithic Integration of All-In-One Supercapacitor for 3D Electronics. <i>Advanced Energy Materials</i> , 2019, 9, 1900037.	10.2	51
110	Regulatory mechanisms of jaw bone and tooth development. <i>Current Topics in Developmental Biology</i> , 2019, 133, 91-118.	1.0	50
111	A Reconfigurable Two-WSe ₂ -Transistor Synaptic Cell for Reinforcement Learning. <i>Advanced Materials</i> , 2022, 34, e2107754.	11.1	48
112	Improved interfacial H ₂ O supply by surface hydroxyl groups for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24091-24097.	5.2	47
113	BMP-IHH-mediated interplay between mesenchymal stem cells and osteoclasts supports calvarial bone homeostasis and repair. <i>Bone Research</i> , 2018, 6, 30.	5.4	45
114	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. <i>ACS Nano</i> , 2020, 14, 10018-10026.	7.3	43
115	<i>Runx2</i> Regulates Mouse Tooth Root Development Via Activation of <i>WNT</i> Inhibitor <i>NOTUM</i> . <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2252-2264.	3.1	43
116	Scalable production of ultrafine polyaniline fibres for tactile organic electrochemical transistors. <i>Nature Communications</i> , 2022, 13, 2101.	5.8	43
117	Nanodiode based on a multiwall CNx/carbon nanotube intramolecular junction. <i>Nanotechnology</i> , 2005, 16, 2134-2137.	1.3	42
118	Disruption of the ERK/MAPK pathway in neural crest cells as a potential cause of Pierre Robin sequence. <i>Development (Cambridge)</i> , 2015, 142, 3734-45.	1.2	42
119	Accelerated oxygen evolution kinetics on nickel-iron diselenide nanotubes by modulating electronic structure. <i>Materials Today Energy</i> , 2019, 11, 89-96.	2.5	42
120	Light-Emitting Memristors for Optoelectronic Artificial Efferent Nerve. <i>Nano Letters</i> , 2021, 21, 6087-6094.	4.5	42
121	TGF β ² regulates epithelial-mesenchymal interactions through WNT signaling activity to control muscle development in the soft palate. <i>Development (Cambridge)</i> , 2014, 141, 909-917.	1.2	41
122	Intraflagellar transport 88 (IFT88) is crucial for craniofacial development in mice and is a candidate gene for human cleft lip and palate. <i>Human Molecular Genetics</i> , 2017, 26, ddx002.	1.4	41
123	Phase and Facet Control of Molybdenum Carbide Nanosheet Observed by In Situ TEM. <i>Small</i> , 2017, 13, 1700051.	5.2	41
124	Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1905578.	11.1	39
125	Noncanonical Transforming Growth Factor β ² (TGF β ²) Signaling in Cranial Neural Crest Cells Causes Tongue Muscle Developmental Defects. <i>Journal of Biological Chemistry</i> , 2013, 288, 29760-29770.	1.6	38
126	Emerging Group-VI Elemental 2D Materials: Preparations, Properties, and Device Applications. <i>Small</i> , 2020, 16, e2003319.	5.2	38

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127	Integration of comprehensive 3D microCT and signaling analysis reveals differential regulatory mechanisms of craniofacial bone development. <i>Developmental Biology</i> , 2015, 400, 180-190.	0.9	37
128	PRMT1-p53 Pathway Controls Epicardial EMT and Invasion. <i>Cell Reports</i> , 2020, 31, 107739.	2.9	37
129	Transferred metal gate to 2D semiconductors for sub-1 V operation and near ideal subthreshold slope. <i>Science Advances</i> , 2021, 7, eabf8744.	4.7	37
130	The WS ₂ quantum dot: preparation, characterization and its optical limiting effect in polymethylmethacrylate. <i>Nanotechnology</i> , 2016, 27, 414005.	1.3	36
131	Defect-Assisted Anchoring of Pt Single Atoms on MoS ₂ Nanosheets Produces High-Performance Catalyst for Industrial Hydrogen Evolution Reaction. <i>Small</i> , 2022, 18, e2104824.	5.2	36
132	Carbon Nanotube/Copper Composites for Via Filling and Thermal Management. , 2007, , .		35
133	Surface-Modified Ultrathin InSe Nanosheets with Enhanced Stability and Photoluminescence for High-Performance Optoelectronics. <i>ACS Nano</i> , 2020, 14, 11373-11382.	7.3	34
134	High thermally conductive and electrically insulating 2D boron nitride nanosheet for efficient heat dissipation of high-power transistors. <i>2D Materials</i> , 2016, 3, 041009.	2.0	33
135	Topical Fibronectin Improves Wound Healing of Irradiated Skin. <i>Scientific Reports</i> , 2017, 7, 3876.	1.6	33
136	Dlx5-FGF10 signaling cascade controls cranial neural crest and myoblast interaction during oropharyngeal patterning and development. <i>Development (Cambridge)</i> , 2017, 144, 4037-4045.	1.2	33
137	Discovering the forbidden Raman modes at the edges of layered materials. <i>Science Advances</i> , 2018, 4, eaau6252.	4.7	33
138	Runx2+ Niche Cells Maintain Incisor Mesenchymal Tissue Homeostasis through IGF Signaling. <i>Cell Reports</i> , 2020, 32, 108007.	2.9	33
139	Spatially Confined Formation of Single Atoms in Highly Porous Carbon Nitride Nanoreactors. <i>ACS Nano</i> , 2021, 15, 7790-7798.	7.3	33
140	Nitrogen-induced interfacial electronic structure of NiS ₂ /CoS ₂ with optimized water and hydrogen binding abilities for efficient alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 719-725.	5.2	33
141	Neuromorphic sensory computing. <i>Science China Information Sciences</i> , 2022, 65, 1.	2.7	33
142	Proliferative and structural differences between male and female mouse submandibular glands. <i>The Anatomical Record</i> , 1993, 235, 303-311.	2.3	32
143	Nerve growth factor (NGF) supports tooth morphogenesis in mouse first branchial arch explants. <i>Developmental Dynamics</i> , 1999, 216, 299-310.	0.8	32
144	Flexible transfer of aligned carbon nanotube films for integration at lower temperature. <i>Nanotechnology</i> , 2007, 18, 355709.	1.3	32

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145	Horizontally aligned carbon nanotube bundles for interconnect application: diameter-dependent contact resistance and mean free path. <i>Nanotechnology</i> , 2010, 21, 235705.	1.3	32
146	Piezocatalytic Foam for Highly Efficient Degradation of Aqueous Organics. <i>Small Science</i> , 2021, 1, 2000011.	5.8	32
147	A simple way to CNx/carbon nanotube intramolecular junctions and branches. <i>Carbon</i> , 2006, 44, 687-691.	5.4	31
148	Enhanced Photocatalytic Activity of WS ₂ Film by Laser Drilling to Produce Porous WS ₂ /WO ₃ Heterostructure. <i>Scientific Reports</i> , 2017, 7, 3125.	1.6	31
149	Antimicrobial Bioresorbable Mg–Zn–Ca Alloy for Bone Repair in a Comparison Study with Mg–Zn–Sr Alloy and Pure Mg. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 517-538.	2.6	31
150	Characterization of switching parameters and multilevel capability in HfO ₂ /AlO _x /bi-layer RRAM devices. , 2011, , .		30
151	Sutures Possess Strong Regenerative Capacity for Calvarial Bone Injury. <i>Stem Cells and Development</i> , 2016, 25, 1801-1807.	1.1	30
152	The TFAP2A–IRF6–GRHL3 genetic pathway is conserved in neurulation. <i>Human Molecular Genetics</i> , 2019, 28, 1726-1737.	1.4	30
153	Three-dimensional reconstruction of adult female mouse submandibular gland secretory structures. <i>The Anatomical Record</i> , 1990, 226, 489-500.	2.3	29
154	An ultra-long and low junction-resistance Ag transparent electrode by electrospun nanofibers. <i>RSC Advances</i> , 2016, 6, 91641-91648.	1.7	29
155	Breaking symmetry in device design for self-driven 2D material based photodetectors. <i>Nanoscale</i> , 2020, 12, 8109-8118.	2.8	29
156	Van der Waals heterostructures with one-dimensional atomic crystals. <i>Progress in Materials Science</i> , 2021, 122, 100856.	16.0	29
157	Charge-governed phase manipulation of few-layer tellurium. <i>Nanoscale</i> , 2018, 10, 22263-22269.	2.8	28
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