Dai-Ming Tang

List of Publications by Year in Descending Order

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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.

121	10,056	51	100
papers	citations	h-index	g-index
123	11,484 ext. citations	12	5.97
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
121	General Synthesis of Layered Rare-Earth Hydroxides (RE = Sm, Eu, Gd, Tb, Dy, Ho, Er, Y) and Direct Exfoliation into Monolayer Nanosheets with High Color Purity. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10135-10143	6.4	3
120	Exfoliated Ferrierite-Related Unilamellar Nanosheets in Solution and Their Use for Preparation of Mixed Zeolite Hierarchical Structures. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11052-11062	16.4	5
119	In Situ Assembly of MoSx Thin-Film through Self-Reduction on p-Si for Drastic Enhancement of Photoelectrochemical Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021 , 31, 2007071	15.6	9
118	1000 Wh L lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. <i>National Science Review</i> , 2021 , 8, nwab012	10.8	16
117	Three-in-one cathode host based on Nb3O8/graphene superlattice heterostructures for high-performance LiB batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9952-9960	13	6
116	Stable single atomic silver wires assembling into a circuitry-connectable nanoarray. <i>Nature Communications</i> , 2021 , 12, 1191	17.4	3
115	Low-energy electron inelastic mean free path and elastic mean free path of graphene. <i>Applied Physics Letters</i> , 2021 , 118, 053104	3.4	O
114	Efficient and selective photocatalytic CH conversion to CHOH with O by controlling overoxidation on TiO. <i>Nature Communications</i> , 2021 , 12, 4652	17.4	24
113	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
112	A universal strategy boosting photoelectrochemical water oxidation by utilizing MXene nanosheets as hole transfer mediators. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120268	21.8	9
111	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration <i>Science</i> , 2021 , 374, 1616-1620	33.3	8
110	On/Off Boundary of Photocatalytic Activity between Single- and Bilayer MoS. ACS Nano, 2020, 14, 6663-	- 66 7 ₇ 2	16
109	A controllable and efficient method for the fabrication of a single HfC nanowire field-emission point electron source aided by low keV FIB milling. <i>Nanoscale</i> , 2020 , 12, 16770-16774	7.7	7
108	Liquid dispersions of zeolite monolayers with high catalytic activity prepared by soft-chemical exfoliation. <i>Science Advances</i> , 2020 , 6, eaay8163	14.3	18
107	CoNiFe Layered Double Hydroxide/RuO Nanosheet Superlattice as Carbon-Free Electrocatalysts for Water Splitting and Li-O Batteries. <i>ACS Applied Materials & Distributed Materi</i>	9.5	18
106	One-dimensional van der Waals heterostructures. <i>Science</i> , 2020 , 367, 537-542	33.3	119
105	Synthesis of Co(II)-Fe(III) Hydroxide Nanocones with Mixed Octahedral/Tetrahedral Coordination toward Efficient Electrocatalysis. <i>Chemistry of Materials</i> , 2020 , 32, 4232-4240	9.6	17

(2018-2020)

104	2D Layered Double Hydroxide Nanosheets and Their Derivatives Toward Efficient Oxygen Evolution Reaction. <i>Nano-Micro Letters</i> , 2020 , 12, 86	19.5	71
103	A thick yet dense silicon anode with enhanced interface stability in lithium storage evidenced by in situ TEM observations. <i>Science Bulletin</i> , 2020 , 65, 1563-1569	10.6	13
102	Precise Identification of the Active Phase of Cobalt Catalyst for Carbon Nanotube Growth by Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 ,	16.7	18
101	Electrical conduction and field emission of a single-crystalline GdBSi nanowire. <i>Nanoscale</i> , 2020 , 12, 18	2 6 3 7 18	268
100	Sleep-Dependent Memory Consolidation in a Neuromorphic Nanowire Network. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 50573-50580	9.5	2
99	Significant off-stoichiometry effect leading to the N-type conduction and ferromagnetic properties in titanium doped Fe2VAl thin films. <i>Acta Materialia</i> , 2020 , 200, 848-856	8.4	5
98	Stress dependence of indentation modulus for carbon fiber in polymer composite. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 412-420	7.1	11
97	Realization and direct observation of five normal and parametric modes in silicon nanowire resonators by in situ transmission electron microscopy. <i>Nanoscale Advances</i> , 2019 , 1, 1784-1790	5.1	2
96	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , 2019 , 29, 1900311	15.6	13
95	Intrinsic and Defect-Related Elastic Moduli of Boron Nitride Nanotubes As Revealed by Transmission Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 4974-4980	11.5	3
94	Kinking effects and transport properties of coaxial BN-C nanotubes as revealed by in situ transmission electron microscopy and theoretical analysis. <i>APL Materials</i> , 2019 , 7, 101118	5.7	
93	Flexible layer-structured BiTe thermoelectric on a carbon nanotube scaffold. <i>Nature Materials</i> , 2019 , 18, 62-68	27	188
92	Tunable Mechanical and Electrical Properties of Coaxial BN-C Nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800576	2.5	2
91	Vapour-liquid-solid growth of monolayer MoS nanoribbons. <i>Nature Materials</i> , 2018 , 17, 535-542	27	185
90	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. <i>Nature Communications</i> , 2018 , 9, 402	17.4	186
89	Few-layer graphitic shells networked by low temperature pyrolysis of zeolitic imidazolate frameworks. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 520-529	7.8	6
88	N-doped carbon nanotubes containing a high concentration of single iron atoms for efficient oxygen reduction. <i>NPG Asia Materials</i> , 2018 , 10, e461-e461	10.3	72
87	Ultrahigh-performance transparent conductive films of carbon-welded isolated single-wall carbon nanotubes. <i>Science Advances</i> , 2018 , 4, eaap9264	14.3	111

86	Size-Dependent Grain-Boundary Structure with Improved Conductive and Mechanical Stabilities in Sub-10-nm Gold Crystals. <i>Physical Review Letters</i> , 2018 , 120, 186102	7.4	19
85	Chirality transitions and transport properties of individual few-walled carbon nanotubes as revealed by in situ TEM probing. <i>Ultramicroscopy</i> , 2018 , 194, 108-116	3.1	6
84	The effect of carbon support on the oxygen reduction activity and durability of single-atom iron catalysts. <i>MRS Communications</i> , 2018 , 8, 1158-1166	2.7	15
83	Growth of Black Phosphorus Nanobelts and Microbelts. <i>Small</i> , 2018 , 14, 1702501	11	11
82	Construction of a hierarchical 3D Co/N-carbon electrocatalyst for efficient oxygen reduction and overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 489-497	13	90
81	Achieving High Quantum Efficiency Narrow-Band Esialon:Eu2+ Phosphors for High-Brightness LCD Backlights by Reducing the Eu3+ Luminescence Killer. <i>Chemistry of Materials</i> , 2018 , 30, 494-505	9.6	157
80	Paper-Derived Flexible 3D Interconnected Carbon Microfiber Networks with Controllable Pore Sizes for Supercapacitors. <i>ACS Applied Materials & District Mate</i>	9.5	25
79	Flaky nano-crystalline SnSe thin films for photoelectrochemical current generation <i>RSC Advances</i> , 2018 , 8, 32157-32163	3.7	7
78	Chemically activating MoS via spontaneous atomic palladium interfacial doping towards efficient hydrogen evolution. <i>Nature Communications</i> , 2018 , 9, 2120	17.4	300
77	Tuning of the Optical, Electronic, and Magnetic Properties of Boron Nitride Nanosheets with Oxygen Doping and Functionalization. <i>Advanced Materials</i> , 2017 , 29, 1700695	24	109
76	Protrusions on Boles on graphene: which is the better choice for sodium ion storage?. <i>Energy and Environmental Science</i> , 2017 , 10, 979-986	35.4	140
75	New insights into the microstructure of translucent CaAlSiN3:Eu2+ phosphor ceramics for solid-state laser lighting. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1042-1051	7.1	63
74	Nano-micro-porous skutterudites with 100% enhancement in ZT for high performance thermoelectricity. <i>Nano Energy</i> , 2017 , 31, 152-159	17.1	152
73	Hierarchically porous Fe-N-doped carbon nanotubes as efficient electrocatalyst for oxygen reduction. <i>Carbon</i> , 2016 , 109, 632-639	10.4	64
72	A 3D bi-functional porous N-doped carbon microtube sponge electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Energy and Environmental Science</i> , 2016 , 9, 3079-3084	35.4	212
71	Crystal structure, tunable emission and applications of Ca1\(\mathbb{A}\)lassi1+xN3\(\mathbb{Q}\)Ox:RE (x = 0\(\mathbb{D}\).22, RE = Ce3+, Eu2+) solid solution phosphors for white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11219-11230	7.1	51
70	Template-free synthesis of boron nitride foam-like porous monoliths and their high-end applications in water purification. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1469-1478	13	95
69	Scalable synthesis and excellent catalytic effect of hydrangea-like RuO2 mesoporous materials for lithiumD2 batteries. <i>Energy Storage Materials</i> , 2016 , 2, 8-13	19.4	36

(2014-2016)

68	CaAlSiN3:Eu2+ translucent ceramic: a promising robust and efficient red color converter for solid state laser displays and lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8197-8205	7.1	91
67	Al2O3MAG:Ce composite phosphor ceramic: a thermally robust and efficient color converter for solid state laser lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8648-8654	7.1	141
66	Amorphization and Directional Crystallization of Metals Confined in Carbon Nanotubes Investigated by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2015 , 15, 4922-7	11.5	11
65	High-throughput fabrication of strutted graphene by ammonium-assisted chemical blowing for high-performance supercapacitors. <i>Nano Energy</i> , 2015 , 16, 81-90	17.1	71
64	In situ fabrication and optoelectronic analysis of axial CdS/p-Si nanowire heterojunctions in a high-resolution transmission electron microscope. <i>Nanotechnology</i> , 2015 , 26, 154001	3.4	14
63	Superior Performance of a LiD2 Battery with Metallic RuO2 Hollow Spheres as the Carbon-Free Cathode. <i>Advanced Energy Materials</i> , 2015 , 5, 1500294	21.8	122
62	Opto-mechano-electrical tripling in ZnO nanowires probed by photocurrent spectroscopy in a high-resolution transmission electron microscope. <i>Applied Physics Letters</i> , 2015 , 107, 091103	3.4	6
61	Halide-assisted atmospheric pressure growth of large WSe2 and WS2 monolayer crystals. <i>Applied Materials Today</i> , 2015 , 1, 60-66	6.6	294
60	Pollutant capturing SERS substrate: porous boron nitride microfibers with uniform silver nanoparticle decoration. <i>Nanoscale</i> , 2015 , 7, 18992-7	7.7	44
59	Integrating a Photocatalyst into a Hybrid Lithium-Sulfur Battery for Direct Storage of Solar Energy. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9271-4	16.4	79
58	Integrating a Photocatalyst into a Hybrid LithiumBulfur Battery for Direct Storage of Solar Energy. <i>Angewandte Chemie</i> , 2015 , 127, 9403-9406	3.6	20
57	An oxygen cathode with stable full dischargeEharge capability based on 2D conducting oxide. <i>Energy and Environmental Science</i> , 2015 , 8, 1992-1997	35.4	103
56	Comparative fracture toughness of multilayer graphenes and boronitrenes. <i>Nano Letters</i> , 2015 , 15, 689	- 94 .5	53
55	Atomistic origins of high rate capability and capacity of N-doped graphene for lithium storage. <i>Nano Letters</i> , 2014 , 14, 1164-71	11.5	271
54	Photosensing performance of branched CdS/ZnO heterostructures as revealed by in situ TEM and photodetector tests. <i>Nanoscale</i> , 2014 , 6, 8084-90	7.7	59
53	Performance-improved Li D 2 battery with Ru nanoparticles supported on binder-free multi-walled carbon nanotube paper as cathode. <i>Energy and Environmental Science</i> , 2014 , 7, 1648-1652	35.4	140
52	Study of the lithium/nickel ions exchange in the layered LiNi0.42Mn0.42Co0.16O2 cathode material for lithium ion batteries: experimental and first-principles calculations. <i>Energy and Environmental Science</i> , 2014 , 7, 1068	35.4	151
51	Structural changes in iron oxide and gold catalysts during nucleation of carbon nanotubes studied by in situ transmission electron microscopy. <i>ACS Nano</i> , 2014 , 8, 292-301	16.7	42

50	Growth of large-scale boron nanowire patterns with identical base-up mode and in situ field emission studies of individual boron nanowire. <i>Small</i> , 2014 , 10, 685-93	11	28
49	Li-O(2) battery based on highly efficient Sb-doped tin oxide supported Ru nanoparticles. <i>Advanced Materials</i> , 2014 , 26, 4659-64	24	127
48	Magnetically assembled Ni@Ag urchin-like ensembles with ultra-sharp tips and numerous gaps for SERS applications. <i>Small</i> , 2014 , 10, 2564-9	11	17
47	Nanomechanical cleavage of molybdenum disulphide atomic layers. <i>Nature Communications</i> , 2014 , 5, 3631	17.4	118
46	In Situ Transmission Electron Microscopy Studies of Carbon Nanotube Nucleation Mechanism and Carbon Nanotube-Clamped Metal Atomic Chains. <i>Springer Theses</i> , 2013 ,	0.1	1
45	Three-dimensional strutted graphene grown by substrate-free sugar blowing for high-power-density supercapacitors. <i>Nature Communications</i> , 2013 , 4, 2905	17.4	514
44	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. <i>Scientific Reports</i> , 2013 , 3, 2975	4.9	467
43	Towards low temperature thermal exfoliation of graphite oxide for graphene production. <i>Carbon</i> , 2013 , 62, 11-24	10.4	108
42	Multi-walled carbon nanotube papers as binder-free cathodes for large capacity and reversible non-aqueous LiD2 batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13076	13	89
41	Ru/ITO: a carbon-free cathode for nonaqueous Li-O2 battery. <i>Nano Letters</i> , 2013 , 13, 4702-7	11.5	230
40	Transmission electron microscope as an ultimate tool for nanomaterial property studies. <i>Microscopy (Oxford, England)</i> , 2013 , 62, 157-75	1.3	7
39	Utilization of multiwalled boron nitride nanotubes for the reinforcement of lightweight aluminum ribbons. <i>Nanoscale Research Letters</i> , 2013 , 8, 3	5	39
38	Revealing the anomalous tensile properties of WS2 nanotubes by in situ transmission electron microscopy. <i>Nano Letters</i> , 2013 , 13, 1034-40	11.5	39
37	An ion-exchange route for the synthesis of hierarchical In2S3/ZnIn2S4 bulk composite and its photocatalytic activity under visible-light irradiation. <i>Dalton Transactions</i> , 2013 , 42, 2687-90	4.3	75
36	Local Coulomb explosion of boron nitride nanotubes under electron beam irradiation. <i>ACS Nano</i> , 2013 , 7, 3491-7	16.7	33
35	Individual boron nanowire has ultra-high specific Young's modulus and fracture strength as revealed by in situ transmission electron microscopy. <i>ACS Nano</i> , 2013 , 7, 10112-20	16.7	27
34	In Situ TEM Method and Materials. <i>Springer Theses</i> , 2013 , 23-35	0.1	
33	Studying Nucleation Mechanism of Carbon Nanotubes by Using In Situ TEM. <i>Springer Theses</i> , 2013 , 37-	- 54 0.1	

(2010-2013)

32	Fabrication and Property Investigation of Carbon Nanotube-Clamped Metal Atomic Chains. <i>Springer Theses</i> , 2013 , 55-71	0.1	
31	Nanomaterial engineering and property studies in a transmission electron microscope. <i>Advanced Materials</i> , 2012 , 24, 177-94	24	41
30	Revealing the conversion mechanism of CuO nanowires during lithiation-delithiation by in situ transmission electron microscopy. <i>Chemical Communications</i> , 2012 , 48, 4812-4	5.8	141
29	Dense and vertically-aligned centimetre-long ZnS nanowire arrays: ionic liquid assisted synthesis and their field emission properties. <i>Nanoscale</i> , 2012 , 4, 2658-62	7.7	15
28	Synthesis, structural analysis and in situ transmission electron microscopy mechanical tests on individual aluminum matrix/boron nitride nanotube nanohybrids. <i>Acta Materialia</i> , 2012 , 60, 6213-6222	8.4	38
27	Heteroepitaxial growth of single-walled carbon nanotubes from boron nitride. <i>Scientific Reports</i> , 2012 , 2, 971	4.9	14
26	Growth of single-crystal Ca10(Pt4As8)(Fe(1.8)Pt(0.2)As2)5 nanowhiskers with superconductivity up to 33 K. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4068-71	16.4	10
25	Nanoscale bending of multilayered boron nitride and graphene ribbons: experiment and objective molecular dynamics calculations. <i>Physical Review Letters</i> , 2012 , 109, 025504	7.4	36
24	N-Doped Graphene-SnO2 Sandwich Paper for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2012 , 22, 2682-2690	15.6	479
23	Mechanical properties of Si nanowires as revealed by in situ transmission electron microscopy and molecular dynamics simulations. <i>Nano Letters</i> , 2012 , 12, 1898-904	11.5	126
22	Self-stacked Co3O4 nanosheets for high-performance lithium ion batteries. <i>Chemical Communications</i> , 2011 , 47, 12280-2	5.8	113
21	Local temperature measurements on nanoscale materials using a movable nanothermocouple assembled in a transmission electron microscope. <i>Nanotechnology</i> , 2011 , 22, 485707	3.4	14
20	Mechanical properties of bamboo-like boron nitride nanotubes by in situ TEM and MD simulations: strengthening effect of interlocked joint interfaces. <i>ACS Nano</i> , 2011 , 5, 7362-8	16.7	53
19	A sandwich structure of graphene and nickel oxide with excellent supercapacitive performance. Journal of Materials Chemistry, 2011 , 21, 9014		115
18	Importance of oxygen in the metal-free catalytic growth of single-walled carbon nanotubes from SiO(x) by a vapor-solid-solid mechanism. <i>Journal of the American Chemical Society</i> , 2011 , 133, 197-9	16.4	110
17	Carbon nanotube-clamped metal atomic chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9055-9	11.5	34
16	Carbon-Nanotube-Array Double Helices. <i>Angewandte Chemie</i> , 2010 , 122, 3724-3727	3.6	20
15	Carbon-nanotube-array double helices. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3642-5	16.4	90

14	Field Emission of Single-Layer Graphene Films Prepared by Electrophoretic Deposition. <i>Advanced Materials</i> , 2009 , 21, 1756-1760	24	562
13	Structural evolution of carbon microcoils induced by a direct current. <i>Carbon</i> , 2009 , 47, 670-674	10.4	11
12	Synthesis and Photoelectrochemical Property of Urchin-like Zn/ZnO CoreBhell Structures. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11035-11040	3.8	69
11	Synthesis of graphene sheets with high electrical conductivity and good thermal stability by hydrogen arc discharge exfoliation. <i>ACS Nano</i> , 2009 , 3, 411-7	16.7	702
10	Low-temperature exfoliated graphenes: vacuum-promoted exfoliation and electrochemical energy storage. <i>ACS Nano</i> , 2009 , 3, 3730-6	16.7	633
9	Enhancement of field emission of CNTs array by CO2-assisted chemical vapor deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3046-51	1.3	6
8	Electron field emission of a nitrogen-doped TiO(2) nanotube array. <i>Nanotechnology</i> , 2008 , 19, 025606	3.4	120
7	In situ electrical measurements of polytypic silver nanowires. <i>Nanotechnology</i> , 2008 , 19, 085711	3.4	33
6	Synthesis and Properties of Quasi-One-Dimensional Nitride Nanostructures 2008 , 149-177		
5	Growth of Magnetic Yard-Glass Shaped Boron Nitride Nanotubes with Periodic Iron Nanoparticles. <i>Advanced Functional Materials</i> , 2007 , 17, 3371-3376	15.6	45
4	Controlled synthesis of quasi-one-dimensional boron nitride nanostructures. <i>Journal of Materials Research</i> , 2007 , 22, 2809-2816	2.5	14
3	PLATELET BORON NITRIDE NANOWIRES. <i>Nano</i> , 2006 , 01, 65-71	1.1	7
2	On the Threshold Force for Chaotic Motions for a Forced Buckled Beam. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1988 , 55, 190-196	2.7	39
1	High-throughput screening and machine learning for the efficient growth of high-quality single-wall carbon nanotubes. <i>Nano Research</i> ,1	10	1