Tianquan Lin

List of Publications by Year
in descending order

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76 papers	9,531 citations	76326 40 h-index	71685 76 g-index
76 all docs	76 docs citations	76 times ranked	13236 citing authors

#	Article	IF	Citations
1	Design rules of pseudocapacitive electrode materials: ion adsorption, diffusion, and electron transmission over prototype TiO2. Science China Materials, 2022, 65, 391-399.	6.3	6
2	Realization of an anion insertion mechanism for high-rate electrochemical energy storage in highly crystalline few-layered potassium manganese dioxide nanosheets. Journal of Materials Chemistry A, 2022, 10, 9402-9407.	10.3	4
3	A Ï€â€Conjugated Polyimideâ€Based Highâ€Performance Aqueous Potassiumâ€Ion Asymmetric Supercapacitor. Macromolecular Rapid Communications, 2022, 43, e2200040.	3.9	8
4	Nitrogen doped hierarchical porous hard carbon derived from a facial Ti-peroxy-initiating in-situ polymerization and its application in electrochemical capacitors. Microporous and Mesoporous Materials, 2020, 294, 109884.	4.4	10
5	Boron-Induced Nitrogen Fixation in 3D Carbon Materials for Supercapacitors. ACS Applied Materials & Interfaces, 2020, 12, 28075-28082.	8.0	34
6	SiO2 stabilizes electrochemically active nitrogen in few-layer carbon electrodes of extraordinary capacitance. Journal of Energy Chemistry, 2020, 49, 179-188.	12.9	7
7	Nitrogen-doped black titania for high performance supercapacitors. Science China Materials, 2020, 63, 1227-1234.	6.3	17
8	Constructing Hierarchical Porous Carbon of Highâ€Performance Capacitance through a Twoâ€Step Nitrogenâ€Fixation Method. Energy Technology, 2020, 8, 2000107.	3.8	3
9	Electrodes with Electrodeposited Water-excluding Polymer Coating Enable High-Voltage Aqueous Supercapacitors. Research, 2020, 2020, 4178179.	5.7	6
10	A bridge between battery and supercapacitor for power/energy gap by using dual redox-active ions electrolyte. Chemical Engineering Journal, 2019, 375, 122054.	12.7	28
11	Sol-gel assisted chemical activation for nitrogen doped porous carbon. Microporous and Mesoporous Materials, 2019, 286, 18-24.	4.4	22
12	Transition metal ion-preintercalated V2O5 as high-performance aqueous zinc-ion battery cathode with broad temperature adaptability. Nano Energy, 2019, 61, 617-625.	16.0	340
13	A Facile Approach To Improve Electrochemical Capacitance of Carbons by in Situ Electrochemical Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 5999-6008.	8.0	10
14	Tunable Synthesis of Colorful Nitrogen-Doped Titanium Oxide and Its Application in Energy Storage. ACS Applied Energy Materials, 2018, 1, 876-882.	5.1	18
15	Facile Synthesis of Nitrogen and Halogen Dualâ€Doped Porous Graphene as an Advanced Performance Anode for Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2018, 5, 1701261.	3.7	21
16	Observation of High Capacitance from Molecular Gd@C₈₂ in Aqueous Electrolyte Derived from Energyâ€Level Matching with Proton. Advanced Materials Interfaces, 2018, 5, 1800240.	3.7	5
17	Extraordinary Porous Few-Layer Carbons of High Capacitance from Pechini Combustion of Magnesium Nitrate Gel. ACS Applied Materials & Interfaces, 2018, 10, 381-388.	8.0	13
18	Improving the Visible-Light Photocatalytic Activity of Graphitic Carbon Nitride by Carbon Black Doping. ACS Omega, 2018, 3, 15009-15017.	3.5	46

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19	Sodiumâ€ion Batteries: Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodiumâ€ion Battery Anode (Adv. Energy Mater. 19/2018). Advanced Energy Materials, 2018, 8, 1870092.	19.5	9
20	Potassium vanadates with stable structure and fast ion diffusion channel as cathode for rechargeable aqueous zinc-ion batteries. Nano Energy, 2018, 51, 579-587.	16.0	425
21	Mechanistic Insights of Zn²⁺ Storage in Sodium Vanadates. Advanced Energy Materials, 2018, 8, 1801819.	19.5	225
22	Observation of Pseudocapacitive Effect and Fast Ion Diffusion in Bimetallic Sulfides as an Advanced Sodiumâ€ion Battery Anode. Advanced Energy Materials, 2018, 8, 1703155.	19.5	374
23	Monodisperse Pt nanoparticles anchored on N-doped black TiO2 as high performance bifunctional electrocatalyst. Journal of Alloys and Compounds, 2017, 701, 669-675.	5.5	24
24	A Robust and Conductive Black Tin Oxide Nanostructure Makes Efficient Lithiumâ€ion Batteries Possible. Advanced Materials, 2017, 29, 1700136.	21.0	212
25	Boosting Supercapacitor Performance of TiO₂ Nanobelts by Efficient Nitrogen Doping. ChemElectroChem, 2017, 4, 2328-2335.	3.4	14
26	Controllable reduced black titania with enhanced photoelectrochemical water splitting performance. Dalton Transactions, 2017, 46, 1047-1051.	3.3	45
27	Variable texture few-layer ordered macroporous carbon for high-performance electrochemical capacitors. Journal of Materials Chemistry A, 2017, 5, 25171-25176.	10.3	6
28	Facile sol-gel method combined with chemical vapor deposition for mesoporous few-layer carbon. Carbon, 2017, 112, 47-52.	10.3	15
29	Graphene-like carbon with three-dimensional periodicity prepared from organic-inorganic templates for energy storage application. Carbon, 2017, 111, 128-132.	10.3	17
30	A New Green Titania with Enhanced NIR Absorption for Mitochondria-Targeted Cancer Therapy. Theranostics, 2017, 7, 1531-1542.	10.0	54
31	Efficient Conversion of CO₂ to Methane Photocatalyzed by Conductive Black Titania. ChemCatChem, 2017, 9, 4389-4396.	3.7	42
32	Progress in Black Titania: A New Material for Advanced Photocatalysis. Advanced Energy Materials, 2016, 6, 1600452.	19.5	251
33	An electron injection promoted highly efficient electrocatalyst of FeNi₃@GR@Fe-NiOOH for oxygen evolution and rechargeable metalâ€“air batteries. Journal of Materials Chemistry A, 2016, 4, 7762-7771.	10.3	70
34	Three-dimensional porous graphene-like carbon cloth from cotton as a free-standing lithium-ion battery anode. Journal of Materials Chemistry A, 2016, 4, 11762-11767.	10.3	38
35	New Graphene Form of Nanoporous Monolith for Excellent Energy Storage. Nano Letters, 2016, 16, 349-354.	9.1	100
36	Black Nb₂O₅ nanorods with improved solar absorption and enhanced photocatalytic activity. Dalton Transactions, 2016, 45, 3888-3894.	3.3	104

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37	Black titania-based theranostic nanoplatform for single NIR laser induced dual-modal imaging-guided PTT/PDT. Biomaterials, 2016, 84, 13-24.	11.4	189
38	Hydrogenated blue titania with high solar absorption and greatly improved photocatalysis. Nanoscale, 2016, 8, 4705-4712.	5.6	86
39	Flexible all solid state supercapacitor with high energy density employing black titania nanoparticles as a conductive agent. Nanoscale, 2016, 8, 4054-4062.	5.6	51
40	Gray Ta₂O₅ Nanowires with Greatly Enhanced Photocatalytic Performance. ACS Applied Materials & Interfaces, 2016, 8, 122-127.	8.0	73
41	Black Titania for Superior Photocatalytic Hydrogen Production and Photoelectrochemical Water Splitting. ChemCatChem, 2015, 7, 2614-2619.	3.7	73
42	A New Tubular Graphene Form of a Tetrahedrally Connected Cellular Structure. Advanced Materials, 2015, 27, 5943-5949.	21.0	193
43	Nitrogen-doped mesoporous carbon of extraordinary capacitance for electrochemical energy storage. Science, 2015, 350, 1508-1513.	12.6	1,821
44	Black nanostructured Nb₂O₅ with improved solar absorption and enhanced photoelectrochemical water splitting. Journal of Materials Chemistry A, 2015, 3, 11830-11837.	10.3	85
45	Molten salt assisted synthesis of black titania hexagonal nanosheets with tuneable phase composition and morphology. RSC Advances, 2015, 5, 85928-85932.	3.6	21
46	Superelastic Few-Layer Carbon Foam Made from Natural Cotton for All-Solid-State Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2015, 7, 25306-25312.	8.0	18
47	Carbon microtube/graphene hybrid structures for thermal management applications. Journal of Materials Chemistry A, 2015, 3, 18706-18710.	10.3	18
48	The hierarchical structure of cubic K_{0.5}La_{0.5}TiO₃ layers and enhanced photocatalytic hydrogen evolution after surface acidification. Dalton Transactions, 2015, 44, 18665-18670.	3.3	6
49	Black strontium titanate nanocrystals of enhanced solar absorption for photocatalysis. CrystEngComm, 2015, 17, 7528-7534.	2.6	40
50	Colored titania nanocrystals and excellent photocatalysis for water cleaning. Catalysis Communications, 2015, 60, 55-59.	3.3	41
51	Heat transport enhancement of thermal energy storage material using graphene/ceramic composites. Carbon, 2014, 75, 314-321.	10.3	65
52	Rapid Microwave Synthesis of Graphene Directly on h-BN with Excellent Heat Dissipation Performance. ACS Applied Materials & Interfaces, 2014, 6, 3088-3092.	8.0	18
53	Directional architecture of graphene/ceramic composites with improved thermal conduction for thermal applications. Journal of Materials Chemistry A, 2014, 2, 2187-2193.	10.3	38
54	A novel method for direct growth of a few-layer graphene on Al2O3 film. Carbon, 2014, 71, 20-26.	10.3	15

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55	A three-dimensional elastic macroscopic graphene network for thermal management application. Journal of Materials Chemistry A, 2014, 2, 18215-18218.	10.3	31
56	Black TiO₂ nanotube arrays for high-efficiency photoelectrochemical water-splitting. Journal of Materials Chemistry A, 2014, 2, 8612-8616.	10.3	355
57	Effective nonmetal incorporation in black titania with enhanced solar energy utilization. Energy and Environmental Science, 2014, 7, 967.	30.8	376
58	Visible-light photocatalytic, solar thermal and photoelectrochemical properties of aluminium-reduced black titania. Energy and Environmental Science, 2013, 6, 3007.	30.8	626
59	Black brookite titania with high solar absorption and excellent photocatalytic performance. Journal of Materials Chemistry A, 2013, 1, 9650.	10.3	175
60	Core-Shell Nanostructured â€œBlackâ€•Rutile Titania as Excellent Catalyst for Hydrogen Production Enhanced by Sulfur Doping. Journal of the American Chemical Society, 2013, 135, 17831-17838.	13.7	425
61	Oriented single-crystalline nickel sulfidenanorod arrays: â€œtwo-in-oneâ€•counter electrodes for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 194-198.	10.3	56
62	Facile and economical exfoliation of graphite for mass production of high-quality graphene sheets. Journal of Materials Chemistry A, 2013, 1, 500-504.	10.3	85
63	Highly Conductive and Flexible Paper of 1D Silver-Nanowire-Doped Graphene. ACS Applied Materials & Interfaces, 2013, 5, 1408-1413.	8.0	144
64	Scotch-tape-like exfoliation of graphite assisted with elemental sulfur and grapheneâ€“sulfur composites for high-performance lithium-sulfur batteries. Energy and Environmental Science, 2013, 6, 1283.	30.8	246
65	Highly Conductive Porous Graphene/Ceramic Composites for Heat Transfer and Thermal Energy Storage. Advanced Functional Materials, 2013, 23, 2263-2269.	14.9	277
66	Highly conductive, free-standing and flexible graphene papers for energy conversion and storage devices. RSC Advances, 2013, 3, 8454.	3.6	47
67	Hâ€Doped Black Titania with Very High Solar Absorption and Excellent Photocatalysis Enhanced by Localized Surface Plasmon Resonance. Advanced Functional Materials, 2013, 23, 5444-5450.	14.9	621
68	Self-regulating homogenous growth of high-quality graphene on Coâ€“Cu composite substrate for layer control. Nanoscale, 2013, 5, 5847.	5.6	25
69	New facile synthesis of TiO2 hollow sphere with an opening hole and its enhanced rate performance in lithium-ion batteries. New Journal of Chemistry, 2013, 37, 784.	2.8	29
70	Gray TiO₂ Nanowires Synthesized by Aluminumâ€Mediated Reduction and Their Excellent Photocatalytic Activity for Water Cleaning. Chemistry - A European Journal, 2013, 19, 13313-13316.	3.3	74
71	Low-Temperature Aluminum Reduction of Graphene Oxide, Electrical Properties, Surface Wettability, and Energy Storage Applications. ACS Nano, 2012, 6, 9068-9078.	14.6	91
72	Hydrogen flame synthesis of few-layer graphene from a solid carbon source on hexagonal boron nitride. Journal of Materials Chemistry, 2012, 22, 2859.	6.7	27

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73	The production of large bilayer hexagonal graphene domains by a two-step growth process of segregation and surface-catalytic chemical vapor deposition. Carbon, 2012, 50, 2703-2709.	10.3	30
74	Autonomously Controlled Homogenous Growth of Waferâ€Sized Highâ€Quality Graphene via a Smart Janus Substrate. Advanced Functional Materials, 2012, 22, 1033-1039.	14.9	41
75	Low-temperature rapid synthesis of high-quality pristine or boron-doped graphene via Wurtz-type reductive coupling reaction. Journal of Materials Chemistry, 2011, 21, 10685.	6.7	68
76	A facile preparation route for boron-doped graphene, and its CdTe solar cell application. Energy and Environmental Science, 2011, 4, 862-865.	30.8	208