Hao Gong

List of Publications by Citations

313 papers	13,875 citations	55 h-index	109 g-index
330 ext. papers	15,352 ext. citations	5.8 avg, IF	6.62 L-index

#	Paper	IF	Citations
313	Exploration of the active center structure of nitrogen-doped graphene-based catalysts for oxygen reduction reaction. *Energy and Environmental Science*, **2012**, 5, 7936	35.4	1813
312	Co3O4 Nanowire@MnO2 ultrathin nanosheet core/shell arrays: a new class of high-performance pseudocapacitive materials. *Advanced Materials*, **2011**, 23, 2076-81	24	1176
311	A High Energy Density Asymmetric Supercapacitor from Nano-architectured Ni(OH)2/Carbon Nanotube Electrodes. *Advanced Functional Materials*, **2012**, 22, 1272-1278	15.6	739
310	Epitaxial Growth of Branched □Fe2O3/SnO2 Nano-Heterostructures with Improved Lithium-Ion Battery Performance. *Advanced Functional Materials*, **2011**, 21, 2439-2445	15.6	408
309	Nano-crystalline Cu-doped ZnO thin film gas sensor for CO. *Sensors and Actuators B: Chemical*, **2006**, 115, 247-251	8.5	368
308	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. *Nanotechnology*, **2009**, 20, 085203	3.4	286
307	Hierarchically Porous Ni-Co Oxide for High Reversibility Asymmetric Full-Cell Supercapacitors. *Journal of the Electrochemical Society*, **2012**, 159, A651-A656	3.9	264
306	Hierarchical assembly of ZnO nanostructures on SnO(2) backbone nanowires: low-temperature hydrothermal preparation and optical properties. *ACS Nano*, **2009**, 3, 3069-76	16.7	242
305	Storage performance of LiFePO4 nanoplates. *Journal of Materials Chemistry*, **2009**, 19, 605-610		241
304	Low-Temperature Growth of SnO2 Nanorod Arrays and Tunable n□□ Sensing Response of a ZnO/SnO2 Heterojunction for Exclusive Hydrogen Sensors. *Advanced Functional Materials*, **2011**, 21, 2680-2686	15.6	187
303	Polymerization optimization of SU-8 photoresist and its applications in microfluidic systems and MEMS. *Journal of Micromechanics and Microengineering*, **2001**, 11, 20-26	2	183
302	Superior performance asymmetric supercapacitors based on a directly grown commercial mass 3D Co3O4@Ni(OH)2 core-shell electrode. *ACS Applied Materials & Interfaces*, **2013**, 5, 10574-82	9.5	182
301	Na2Ti6O13: a potential anode for grid-storage sodium-ion batteries. *Chemical Communications*, **2013**, 49, 7451-3	5.8	167
300	Lignin-derived interconnected hierarchical porous carbon monolith with large areal/volumetric capacitances for supercapacitor. *Carbon*, **2016**, 100, 151-157	10.4	155
299	A high energy density aqueous hybrid supercapacitor with widened potential window through multi approaches. *Nano Energy*, **2019**, 59, 41-49	17.1	146
298	Low-contact-resistance graphene devices with nickel-etched-graphene contacts. *ACS Nano*, **2014**, 8, 994-1001	16.7	143
297	Capacitance decay of nanoporous nickel hydroxide. *Journal of Power Sources*, **2010**, 195, 6977-6981	8.9	138

296	Morphology and crystallization kinetics in HfO2 thin films grown by atomic layer deposition. *Journal of Applied Physics*, **2003**, 93, 1477-1481	2.5	137
295	20.7% highly reproducible inverted planar perovskite solar cells with enhanced fill factor and eliminated hysteresis. *Energy and Environmental Science*, **2019**, 12, 1622-1633	35.4	134
294	Ferromagnetism in ZnO Nanowires Derived from Electro-deposition on AAO Template and Subsequent Oxidation. *Advanced Materials*, **2008**, 20, 1170-1174	24	127
293	Nanocrystalline p-type transparent CuAlO semiconductor prepared by chemical-vapor deposition with Cu(acac)2 and Al(acac)3 precursors. *Applied Physics Letters*, **2000**, 76, 3959-3961	3.4	118
292	PEDOT:PSS monolayers to enhance the hole extraction and stability of perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 16583-16589	13	105
291	Characterization of the polymerization of SU-8 photoresist and its applications in micro-electro-mechanical systems (MEMS). *Polymer Testing*, **2001**, 20, 693-701	4.5	103
290	CZTS-based materials and interfaces and their effects on the performance of thin film solar cells. *Physica Status Solidi - Rapid Research Letters*, **2014**, 08, 735-762	2.5	100
289	Investigation of mechanical properties of transparent conducting oxide thin films. *Thin Solid Films*, **2003**, 443, 60-65	2.2	100
288	High-Loading Nano-SnO2 Encapsulated in situ in Three-Dimensional Rigid Porous Carbon for Superior Lithium-Ion Batteries. *Chemistry - A European Journal*, **2016**, 22, 4915-23	4.8	98
287	Large-diameter graphene nanotubes synthesized using Ni nanowire templates. *Nano Letters*, **2010**, 10, 4844-50	11.5	94
286	Photoluminescence and multiphonon resonant Raman scattering in low-temperature grown ZnO nanostructures. *Applied Physics Letters*, **2006**, 89, 071922	3.4	93
285	Cage-Type Highly Graphitic Porous Carbon-Co3O4 Polyhedron as the Cathode of Lithium-Oxygen Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 2796-804	9.5	89
284	Suppressed crystallization of Hf-based gate dielectrics by controlled addition of Al2O3 using atomic layer deposition. *Applied Physics Letters*, **2002**, 81, 4218-4220	3.4	89
283	The Sol-Gel-Derived Nickel-Cobalt Oxides with High Supercapacitor Performances. *Journal of the Electrochemical Society*, **2011**, 158, A695	3.9	85
282	Metal□rganic framework-derived hierarchical MoS2/CoS2 nanotube arrays as pH-universal electrocatalysts for efficient hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 13339-13346	13	81
281	Functionlized graphene serving as free radical scavenger and corrosion protection in gamma-irradiated epoxy composites. *Carbon*, **2016**, 101, 315-323	10.4	79
280	Interaction between thin-film tin oxide gas sensor and five organic vapors. *Sensors and Actuators B: Chemical*, **1999**, 54, 232-235	8.5	79
279	Photovoltaic Behavior of Nanocrystalline SnS/TiO2. *Journal of Physical Chemistry C*, **2010**, 114, 3256-3259	3.8	76

278	The synergistic effect of Ceria and Co in N-doped leaf-like carbon nanosheets derived from a 2D MOF and their enhanced performance in the oxygen reduction reaction. *Chemical Communications*, **2018**, 54, 1623-1626	5.8	75
277	Morphology Controllable Synthesis of □Fe2O3 1D Nanostructures: Growth Mechanism and Nanodevice Based on Single Nanowire. *Journal of Physical Chemistry C*, **2008**, 112, 10784-10788	3.8	72
276	2D Layered Double Hydroxide Nanosheets and Their Derivatives Toward Efficient Oxygen Evolution Reaction. *Nano-Micro Letters*, **2020**, 12, 86	19.5	71
275	Study on Phase Formation Mechanism of Non- and Near-Stoichiometric Cu2ZnSn(S,Se)4 Film Prepared by Selenization of Cu□Sn□Zn□S Precursors. *Chemistry of Materials*, **2014**, 26, 2005-2014	9.6	71
274	Fabrication of PdCo Bimetallic Nanoparticles Anchored on Three-Dimensional Ordered N-Doped Porous Carbon as an Efficient Catalyst for Oxygen Reduction Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 20766-71	9.5	70
273	Hierarchical Porous Nickel Cobaltate Nanoneedle Arrays as Flexible Carbon-Protected Cathodes for High-Performance Lithium-Oxygen Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 8427-35	9.5	69
272	Hydrothermal growth of TiO2 nanorod arrays and in situ conversion to nanotube arrays for highly efficient quantum dot-sensitized solar cells. *Small*, **2013**, 9, 3153-60	11	68
271	A study of conduction in the transition zone between homologous and ZnO-rich regions in the In2O3□ZnO system. *Journal of Applied Physics*, **2005**, 97, 063706	2.5	68
270	Direct n- to p-Type Channel Conversion in Monolayer/Few-Layer WS Field-Effect Transistors by Atomic Nitrogen Treatment. *ACS Nano*, **2018**, 12, 2506-2513	16.7	67
269	Hollow spheres of nanocarbon and their manganese dioxide hybrids derived from soft template for supercapacitor application. *Journal of Power Sources*, **2013**, 240, 713-720	8.9	66
268	A nickel cobaltate nanoparticle-decorated hierarchical porous N-doped carbon nanofiber film as a binder-free self-supported cathode for nonaqueous Li□O2 batteries. *Journal of Materials Chemistry A*, **2016**, 4, 9106-9112	13	66
267	Full Defects Passivation Enables 21% Efficiency Perovskite Solar Cells Operating in Air. *Advanced Energy Materials*, **2020**, 10, 2001958	21.8	65
266	Synthesis and characterization of multifunctional FePt/ZnO core/shell nanoparticles. *Advanced Materials*, **2010**, 22, 403-6	24	63
265	Preparation of the TiO/Graphic Carbon Nitride Core-Shell Array as a Photoanode for Efficient Photoelectrochemical Water Splitting. *Langmuir*, **2016**, 32, 13322-13332	4	62
264	Layered double hydroxide modified WO3 nanorod arrays for enhanced photoelectrochemical water splitting. *Applied Catalysis A: General*, **2016**, 528, 52-58	5.1	62
263	A time-resolved current method for the investigation of charging ability of insulators under electron beam irradiation. *Journal of Applied Physics*, **1996**, 79, 7123-7128	2.5	59
262	Hierarchical porous Cu2ZnSnS4 films for high-capacity reversible lithium storage applications. *Journal of Materials Chemistry A*, **2013**, 1, 7927	13	58
261	Oxidation behaviour of FeAl intermetallics.The effects of Y and/or Zr on isothermal oxidation kinetics. *Intermetallics*, **2000**, 8, 769-779	3.5	58

260	Cu2ZnSnS4 synthesized through a green and economic process. *Journal of Alloys and Compounds*, **2011**, 509, 9627-9630	5.7	55
259	Enhancement of Conductivity and Thermoelectric Property of PEDOT:PSS via Acid Doping and Single Post-Treatment for Flexible Power Generator. *Advanced Sustainable Systems*, **2018**, 2, 1800085	5.9	55
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257	High mobility undoped amorphous indium zinc oxide transparent thin films. *Journal of Applied Physics*, **2005**, 98, 073703	2.5	53
256	The influence of Cu/Al ratio on properties of chemical-vapor-deposition-grown p-type CuAlO transparent semiconducting films. *Journal of Applied Physics*, **2005**, 98, 033707	2.5	52
255	Control of p- and n-type conductivities in P doped ZnO thin films by using radio-frequency sputtering. *Applied Physics Letters*, **2006**, 88, 132114	3.4	51
254	Photo-enhanced lithium oxygen batteries with defective titanium oxide as both photo-anode and air electrode. *Energy Storage Materials*, **2018**, 13, 49-56	19.4	49
253	ITO thin films coated quartz crystal microbalance as gas sensor for NO detection. *Sensors and Actuators B: Chemical*, **2002**, 87, 159-167	8.5	49
252	Multifunctional RbCl dopants for efficient inverted planar perovskite solar cell with ultra-high fill factor, negligible hysteresis and improved stability. *Nano Energy*, **2018**, 53, 567-578	17.1	47
251	Electronic properties of barium chalcogenides from first-principles calculations: Tailoring wide-band-gap II-VI semiconductors. *Physical Review B*, **2005**, 71,	3.3	46
250	Properties of p-type and n-type ZnO influenced by P concentration. *Applied Physics Letters*, **2006**, 89, 251102	3.4	45
249	Annealing effects of tantalum films on Si and SiO2/Si substrates in various vacuums. *Journal of Applied Physics*, **2001**, 90, 416-420	2.5	45
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247	Transparent indium zinc oxide ohmic contact to phosphor-doped n-type zinc oxide. *Applied Physics Letters*, **2006**, 88, 101901	3.4	44
246	Effects of aluminum on the properties of p-type CuAlO transparent oxide semiconductor prepared by reactive co-sputtering. *Thin Solid Films*, **2003**, 445, 299-303	2.2	43
245	Oxidation behaviour of Cu thin films on Si wafer at 175–400°C. *Materials Letters*, **2001**, 51, 78-84	3.3	43
244	Simultaneous edge and electronic control of MoS nanosheets through Fe doping for an efficient oxygen evolution reaction. *Nanoscale*, **2018**, 10, 20113-20119	7.7	43
243	Localized suppression of longitudinal-optical-phonon-exciton coupling in bent ZnO nanowires. *Nanotechnology*, **2010**, 21, 445706	3.4	42

242	Cobalt monoxide-doped porous graphitic carbon microspheres for supercapacitor application. *Scientific Reports*, **2013**, 3, 2925	4.9	41
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240	Sputtered deposited nanocrystalline ZnO films: A correlation between electrical, optical and microstructural properties. *Applied Physics A: Materials Science and Processing*, **2005**, 80, 1641-1646	2.6	39
239	Effects of substrate on the structure and orientation of ZnO thin film grown by rf-magnetron sputtering. *Journal of Applied Physics*, **2007**, 102, 083529	2.5	38
238	Charge trapping on different cuts of a single-crystalline □SiO2. *Journal of Applied Physics*, **1993**, 74, 1944-1948	2.5	38
237	A one step processed advanced interwoven architecture of Ni(OH)2 and Cu nanosheets with ultrahigh supercapacitor performance. *Journal of Materials Chemistry A*, **2016**, 4, 12144-12151	13	38
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235	Quartz crystal microbalance coated with sol□gel-derived indium□tin oxide thin films as gas sensor for NO detection. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2004**, 236, 23-30	5.1	37
234	A room temperature indium tin oxide/quartz crystal microbalance gas sensor for nitric oxide. *Sensors and Actuators B: Chemical*, **2003**, 93, 175-180	8.5	37
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229	Boosted electrochemical properties from the surface engineering of ultrathin interlaced Ni(OH) nanosheets with Co(OH) quantum dot modification. *Nanoscale*, **2018**, 10, 10554-10563	7.7	35
228	Fabrication and theoretical investigation of cobaltosic sulfide nanosheets for flexible aqueous Zn/Co batteries. *Nano Energy*, **2020**, 68, 104314	17.1	34
227	(CH NH) PdCl : A Compound with Two-Dimensional Organic-Inorganic Layered Perovskite Structure. *Chemistry - A European Journal*, **2016**, 22, 2146-2152	4.8	34
226	Transparent p-Type Semiconductors: Copper-Based Oxides and Oxychalcogenides. *Coatings*, **2019**, 9, 137	2.9	34
225	Influence of sintering temperature on screen printed Cu2ZnSnS4 (CZTS) films. *Journal of Alloys and Compounds*, **2012**, 539, 237-241	5.7	33

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223	Lattice dynamics and electrical properties of wurtzite ZnO determined by a density functional theory method. *Journal of Crystal Growth*, **2006**, 287, 199-203	1.6	33
222	Porous Iron-Tungsten Carbide Electrocatalyst with High Activity and Stability toward Oxygen Reduction Reaction: From the Self-Assisted Synthetic Mechanism to Its Active-Species Probing. *ACS Applied Materials & Interfaces*, **2017**, 9, 3713-3722	9.5	32
221	Enhanced water oxidation reaction kinetics on a BiVO4 photoanode by surface modification with Ni4O4 cubane. *Journal of Materials Chemistry A*, **2019**, 7, 278-288	13	31
220	Temperature effect on the binder-free nickel copper oxide nanowires with superior supercapacitor performance. *Nanoscale*, **2014**, 6, 12981-9	7.7	31
219	Annealing effects of tantalum thin films sputtered on [001] silicon substrate. *Materials Science and Engineering C*, **2001**, 16, 85-89	8.3	31
218	Selective Deposition of Ag3PO4 on Specific Facet of BiVO4 Nanoplate for Enhanced Photoelectrochemical Performance. *Solar Rrl*, **2018**, 2, 1800102	7.1	30
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215	Cellular distribution of GPR14 and the positive inotropic role of urotensin II in the myocardium in adult rat. *Journal of Applied Physiology*, **2004**, 97, 2228-35	3.7	29
214	Functional Species Encapsulated in Nitrogen-Doped Porous Carbon as a Highly Efficient Catalyst for the Oxygen Reduction Reaction. *Chemistry - A European Journal*, **2017**, 23, 3398-3405	4.8	28
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210	Secondary and backscattered electron yields of polymer surface under electron beam irradiation. *Applied Surface Science*, **1997**, 119, 169-175	6.7	28
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207	Constructing a multicomponent ordered mesoporous carbon for improved electrochemical performance induced by in-situ doping phosphorus. *Carbon*, **2016**, 104, 10-19	10.4	27

206	Surface-engineered cobalt oxide nanowires as multifunctional electrocatalysts for efficient Zn-Air batteries-driven overall water splitting. *Energy Storage Materials*, **2019**, 23, 1-7	19.4	26
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192	Effects of oxygen on low-temperature growth and band alignment of ZnO□GaN heterostructures. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2008**, 26, 1462-1468	2.9	22
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189	Unravelling the correlation between nickel to copper ratio of binary oxides and their superior supercapacitor performance. *Electrochimica Acta*, **2017**, 234, 82-92	6.7	21

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166	Large-Surface-Area Nanowall SnS Films Prepared by Chemical Bath Deposition. *Journal of the Electrochemical Society*, **2009**, 156, H157	3.9	17
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164	Highly conductive and flexible transparent films based on silver nanowire/chitosan composite. *RSC Advances*, **2016**, 6, 47552-47561	3.7	17
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159	Colossal dielectric response and relaxation behavior in novel system of Zr4+ and Nb5+ co-substituted CaCu3Ti4O12 ceramics. *Ceramics International*, **2021**, 47, 111-120	5.1	16
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