Jim Yang Lee

List of Publications by Citations

347 papers	32,637 citations	93 h-index	169 g-index
363 ext. papers	34,796 ext. citations	8.4 avg, IF	7.48 L-index

#	Paper	IF	Citations
347	Template-Free Synthesis of SnO2 Hollow Nanostructures with High Lithium Storage Capacity. *Advanced Materials*, **2006**, 18, 2325-2329	24	1531
346	From aggregation-induced emission of Au(I)-thiolate complexes to ultrabright Au(0)@Au(I)-thiolate core-shell nanoclusters. *Journal of the American Chemical Society*, **2012**, 134, 16662-70	16.4	1067
345	Self-Supported Formation of Needlelike Co3O4 Nanotubes and Their Application as Lithium-Ion Battery Electrodes. *Advanced Materials*, **2008**, 20, 258-262	24	900
344	Green energy storage materials: Nanostructured TiO2 and Sn-based anodes for lithium-ion batteries. *Energy and Environmental Science*, **2009**, 2, 818	35.4	760
343	Layered SnS2-reduced graphene oxide composite--a high-capacity, high-rate, and long-cycle life sodium-ion battery anode material. *Advanced Materials*, **2014**, 26, 3854-9	24	679
342	Electrocatalysis of polysulfide conversion by sulfur-deficient MoS2 nanoflakes for lithium–sulfur batteries. *Energy and Environmental Science*, **2017**, 10, 1476-1486	35.4	617
341	Carbon-Supported Pt and PtRu Nanoparticles as Catalysts for a Direct Methanol Fuel Cell. *Journal of Physical Chemistry B*, **2004**, 108, 8234-8240	3.4	599
340	The synthesis of SERS-active gold nanoflower tags for in vivo applications. *ACS Nano*, **2008**, 2, 2473-80	16.7	523
339	Preparation and Characterization of Platinum-Based Electrocatalysts on Multiwalled Carbon Nanotubes for Proton Exchange Membrane Fuel Cells. *Langmuir*, **2002**, 18, 4054-4060	4	481
338	Highly Reversible Lithium Storage in Porous SnO2 Nanotubes with Coaxially Grown Carbon Nanotube Overlayers. *Advanced Materials*, **2006**, 18, 645-649	24	456
337	Graphene-like MoS2/amorphous carbon composites with high capacity and excellent stability as anode materials for lithium ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 6251		450
336	Silver nanoplates: from biological to biomimetic synthesis. *ACS Nano*, **2007**, 1, 429-39	16.7	443
335	Polycrystalline SnO2 Nanotubes Prepared via Infiltration Casting of Nanocrystallites and Their Electrochemical Application. *Chemistry of Materials*, **2005**, 17, 3899-3903	9.6	409
334	Preparation of SnO2/Carbon Composite Hollow Spheres and Their Lithium Storage Properties. *Chemistry of Materials*, **2008**, 20, 6562-6566	9.6	393
333	CTAB-assisted synthesis of single-layer MoS2–graphene composites as anode materials of Li-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 2202-2210	13	378
332	Crystalline Carbon Hollow Spheres, Crystalline Carbon–SnO2 Hollow Spheres, and Crystalline SnO2 Hollow Spheres: Synthesis and Performance in Reversible Li-Ion Storage. *Chemistry of Materials*, **2006**, 18, 1347-1353	9.6	364
331	Hollow Core–Shell Mesospheres of Crystalline SnO2 Nanoparticle Aggregates for High Capacity Li+ Ion Storage. *Chemistry of Materials*, **2008**, 20, 1841-1846	9.6	350

330	Seedless, Surfactantless, High-Yield Synthesis of Branched Gold Nanocrystals in HEPES Buffer Solution. *Chemistry of Materials*, **2007**, 19, 2823-2830	9.6	347
329	Synthesis of highly fluorescent metal (Ag, Au, Pt, and Cu) nanoclusters by electrostatically induced reversible phase transfer. *ACS Nano*, **2011**, 5, 8800-8	16.7	345
328	Preparation and Characterization of Highly Ordered Graphitic Mesoporous Carbon as a Pt Catalyst Support for Direct Methanol Fuel Cells. *Chemistry of Materials*, **2005**, 17, 3960-3967	9.6	341
327	Physical and electrochemical characterizations of microwave-assisted polyol preparation of carbon-supported PtRu nanoparticles. *Langmuir*, **2004**, 20, 181-7	4	331
326	Thermal formation of mesoporous single-crystal Co3O4 nano-needles and their lithium storage properties. *Journal of Materials Chemistry*, **2008**, 18, 4397		297
325	Graphene-like MoS□/graphene composites: cationic surfactant-assisted hydrothermal synthesis and electrochemical reversible storage of lithium. *Small*, **2013**, 9, 3693-703	11	291
324	Identification of active biomolecules in the high-yield synthesis of single-crystalline gold nanoplates in algal solutions. *Small*, **2007**, 3, 672-82	11	280
323	Reversible lithium-ion storage in silver-treated nanoscale hollow porous silicon particles. *Angewandte Chemie - International Edition*, **2012**, 51, 2409-13	16.4	277
322	Graphene-encapsulated hollow Fe□□ nanoparticle aggregates as a high-performance anode material for lithium ion batteries. *ACS Applied Materials & Interfaces*, **2011**, 3, 3078-83	9.5	271
321	Carbon-supported Pt nanoparticles as catalysts for proton exchange membrane fuel cells. *Journal of Power Sources*, **2005**, 139, 73-78	8.9	267
320	Particle Size Effects in Pd-Catalyzed Electrooxidation of Formic Acid. *Journal of Physical Chemistry C* , **2008**, 112, 3789-3793	3.8	250
319	Graphene/nanosized silicon composites for lithium battery anodes with improved cycling stability. *Carbon*, **2011**, 49, 1787-1796	10.4	248
318	Uncovering the design rules for peptide synthesis of metal nanoparticles. *Journal of the American Chemical Society*, **2010**, 132, 5677-86	16.4	246
317	Preparation of carbon-supported core-shell Au-Pt nanoparticles for methanol oxidation reaction: The promotional effect of the Au core. *Journal of Physical Chemistry B*, **2006**, 110, 24606-11	3.4	244
316	New Insights on the Nanoparticle Growth Mechanism in the Citrate Reduction of Gold(III) Salt: Formation of the Au Nanowire Intermediate and Its Nonlinear Optical Properties. *Journal of Physical Chemistry C*, **2007**, 111, 6281-6287	3.8	235
315	A metal-free ORR/OER bifunctional electrocatalyst derived from metal-organic frameworks for rechargeable Zn-Air batteries. *Carbon*, **2017**, 111, 641-650	10.4	233
314	Rational synthesis, self-assembly, and optical properties of PbS-Au heterogeneous nanostructures via preferential deposition. *Journal of the American Chemical Society*, **2006**, 128, 11921-6	16.4	228
313	Preparation of PtNi nanoparticles for the electrocatalytic oxidation of methanol. *Journal of Materials Chemistry*, **2003**, 13, 2555		225

312	Few-layer SnS2/graphene hybrid with exceptional electrochemical performance as lithium-ion battery anode. *Journal of Power Sources*, **2012**, 201, 259-266	8.9	221
311	Synthesis of nanocrystals with variable high-index Pd facets through the controlled heteroepitaxial growth of trisoctahedral Au templates. *Journal of the American Chemical Society*, **2010**, 132, 18258-65	16.4	219
310	Corrosion protection of mild steel by electroactive polyaniline coatings. *Synthetic Metals*, **1997**, 88, 237-242	3.9	211
309	Multiwalled Carbon Nanotubes Beaded with ZnO Nanoparticles for Ultrafast Nonlinear Optical Switching. *Advanced Materials*, **2006**, 18, 587-592	24	199
308	Phase transfer and its applications in nanotechnology. *Chemical Society Reviews*, **2011**, 40, 1672-96	58.5	193
307	Carbon-encapsulated F-doped Li4Ti5O12 as a high rate anode material for Li+ batteries. *ACS Nano*, **2013**, 7, 10870-8	16.7	189
306	Highly active core□shell Au@Pd catalyst for formic acid electrooxidation. *Electrochemistry Communications*, **2007**, 9, 1725-1729	5.1	189
305	Synthesis of graphitic ordered macroporous carbon with a three-dimensional interconnected pore structure for electrochemical applications. *Journal of Physical Chemistry B*, **2005**, 109, 20200-6	3.4	184
304	Microwave-assisted synthesis of carbon supported Pt nanoparticles for fuel cell applications. *Chemical Communications*, **2002**, 2588-2589	5.8	184
303	Optimization of high-yield biological synthesis of single-crystalline gold nanoplates. *Journal of Physical Chemistry B*, **2005**, 109, 15256-63	3.4	182
302	[email□protected] and [email□protected]@CNT nanostructures for superior reversible lithium ion storage. *Chemistry of Materials*, **2009**, 21, 3210-3215	9.6	175
301	Synthesis of Single-Crystalline Gold Nanoplates in Aqueous Solutions through Biomineralization by Serum Albumin Protein. *Journal of Physical Chemistry C*, **2007**, 111, 10226-10232	3.8	172
300	In situ preparation of poly(ethylene oxide)□SiO2 composite polymer electrolytes. *Journal of Power Sources*, **2004**, 129, 303-311	8.9	172
299	Synthesis and characterization of PtRu/C catalysts from microemulsions and emulsions. *Journal of Materials Chemistry*, **2002**, 12, 2453-2458		172
298	Investigating the Energy Storage Mechanism of SnS2-rGO Composite Anode for Advanced Na-Ion Batteries. *Chemistry of Materials*, **2015**, 27, 5633-5640	9.6	167
297	Seed-Mediated Synthesis of Monodisperse Concave Trisoctahedral Gold Nanocrystals with Controllable Sizes. *Journal of Physical Chemistry C*, **2010**, 114, 11119-11126	3.8	167
296	Monodisperse icosahedral Ag, Au, and Pd nanoparticles: size control strategy and superlattice formation. *ACS Nano*, **2009**, 3, 139-48	16.7	167
295	Preparation of carbon-supported PtRu nanoparticles for direct methanol fuel cell applications□a comparative study. *Journal of Power Sources*, **2005**, 142, 43-49	8.9	163

294	In situ nitrogenated graphene-few-layer WS2 composites for fast and reversible Li+ storage. *Nanoscale*, **2013**, 5, 7890-6	7.7	162
293	Modified ligand-exchange for efficient solubilization of CdSe/ZnS quantum dots in water: a procedure guided by computational studies. *Langmuir*, **2008**, 24, 5270-6	4	158
292	Reversible storage of lithium in a rambutan-like tin-carbon electrode. *Angewandte Chemie - International Edition*, **2009**, 48, 1660-3	16.4	157
291	A Cathode-Integrated Sulfur-Deficient CoS Catalytic Interlayer for the Reutilization of "Lost" Polysulfides in Lithium-Sulfur Batteries. *ACS Nano*, **2019**, 13, 7073-7082	16.7	156
290	Molten Salt Synthesis of Tin Oxide Nanorods: Morphological and Electrochemical Features. *Journal of Physical Chemistry B*, **2004**, 108, 17832-17837	3.4	156
289	The nanocomposites of carbon nanotube with Sb and SnSb0.5 as Li-ion battery anodes. *Carbon*, **2003**, 41, 959-966	10.4	151
288	Preparation and Characterization of Carbon Nanospheres as Anode Materials in Lithium-Ion Secondary Batteries. *Industrial & Engineering Chemistry Research*, **2008**, 47, 2294-2300	3.9	145
287	Observation of cluster size growth in CO-directed synthesis of Au25(SR)18 nanoclusters. *ACS Nano*, **2012**, 6, 7920-7	16.7	144
286	Hollow and cage-bell structured nanomaterials of noble metals. *Journal of the American Chemical Society*, **2012**, 134, 11602-10	16.4	141
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284	Nitrogen-doped carbon-encapsulation of Fe3O4 for increased reversibility in Li+ storage by the conversion reaction. *Journal of Materials Chemistry*, **2012**, 22, 7845		133
283	Synthesis of Ag@AgAu metal core/alloy shell bimetallic nanoparticles with tunable shell compositions by a galvanic replacement reaction. *Small*, **2008**, 4, 1067-71	11	132
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281	Segmented Pt/Ru, Pt/Ni, and Pt/RuNi nanorods as model bifunctional catalysts for methanol oxidation. *Small*, **2006**, 2, 121-8	11	129
280	Graphene-like layered metal dichalcogenide/graphene composites: synthesis and applications in energy storage and conversion. *Materials Today*, **2014**, 17, 184-193	21.8	128
279	Hollow carbon spheres with a controllable shell structure. *Journal of Materials Chemistry*, **2006**, 16, 4413		125
278	Microwave heated polyol synthesis of carbon nanotubes supported Pt nanoparticles for methanol electrooxidation. *Materials Chemistry and Physics*, **2005**, 91, 124-129	4.4	125
277	Monodispersity control in the synthesis of monometallic and bimetallic quasi-spherical gold and silver nanoparticles. *Nanoscale*, **2010**, 2, 1962-75	7.7	124

276	Preparation and characterization of Pt/C and PtRu/C electrocatalysts for direct ethanol fuel cells. *Journal of Power Sources*, **2005**, 149, 1-7	8.9	123
275	Mesoporous activated carbons with enhanced porosity by optimal hydrothermal pre-treatment of biomass for supercapacitor applications. *Microporous and Mesoporous Materials*, **2015**, 218, 55-61	5.3	118
274	Core-shell Ag-Au nanoparticles from replacement reaction in organic medium. *Journal of Physical Chemistry B*, **2005**, 109, 19208-12	3.4	118
273	Introducing amphiphilicity to noble metal nanoclusters via phase-transfer driven ion-pairing reaction. *Journal of the American Chemical Society*, **2015**, 137, 2128-36	16.4	117
272	Highly luminescent Ag+ nanoclusters for Hg2+ ion detection. *Nanoscale*, **2012**, 4, 1968-71	7.7	116
271	Elucidating the Catalytic Activity of Oxygen Deficiency in the Polysulfide Conversion Reactions of Lithium‐Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1801868	21.8	115
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269	Effects of preparation conditions on performance of carbon-supported nanosize Pt-Co catalysts for methanol electro-oxidation under acidic conditions. *Journal of Power Sources*, **2005**, 140, 268-273	8.9	114
268	Fe-doped MnxOy with hierarchical porosity as a high-performance lithium-ion battery anode. *Advanced Materials*, **2013**, 25, 4646-52	24	112
267	Solvent-induced shape evolution of PVP protected spherical silver nanoparticles into triangular nanoplates and nanorods. *Journal of Colloid and Interface Science*, **2005**, 289, 402-9	9.3	110
266	Dispersion of Sn and SnO on carbon anodes. *Journal of Power Sources*, **2000**, 90, 70-75	8.9	107
265	Acetate stabilization of metal nanoparticles and its role in the preparation of metal nanoparticles in ethylene glycol. *Langmuir*, **2004**, 20, 4241-5	4	106
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262	Electrochemical impedance and X-ray photoelectron spectroscopic studies of the inhibition of mild steel corrosion in acids by cyclohexylamine. *Electrochimica Acta*, **1997**, 42, 605-615	6.7	101
261	Pt-decorated PdFe nanoparticles as methanol-tolerant oxygen reduction electrocatalyst. *ACS Applied Materials & Interfaces*, **2010**, 2, 119-26	9.5	100
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257	Thin film composite forward-osmosis membranes with enhanced internal osmotic pressure for internal concentration polarization reduction. *Chemical Engineering Journal*, **2014**, 249, 236-245	14.7	95
256	Template Preparation of Multisegment PtNi Nanorods as Methanol Electro-Oxidation Catalysts with Adjustable Bimetallic Pair Sites. *Journal of Physical Chemistry B*, **2004**, 108, 17959-17963	3.4	94
255	Precursor engineering and controlled conversion for the synthesis of monodisperse thiolate-protected metal nanoclusters. *Nanoscale*, **2013**, 5, 4606-20	7.7	93
254	A bis(p-sulfonatophenyl)phenylphosphine-based synthesis of hollow Pt nanospheres. *Journal of Physical Chemistry B*, **2006**, 110, 125-9	3.4	93
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252	Preparation of Pt and PtRu nanoparticles supported on carbon nanotubes by microwave-assisted heating polyol process. *Materials Letters*, **2004**, 58, 3166-3169	3.3	92
251	Citric acid functionalized carbon materials for fuel cell applications. *Journal of Power Sources*, **2008**, 176, 70-75	8.9	91
250	Reversible Crumpling of 2D Titanium Carbide (MXene) Nanocoatings for Stretchable Electromagnetic Shielding and Wearable Wireless Communication. *Advanced Functional Materials*, **2020**, 30, 1907451	15.6	91
249	Catalytic carbon monoxide oxidation over strontium, cerium and copper-substituted lanthanum manganates and cobaltates. *Applied Catalysis A: General*, **1994**, 107, 201-227	5.1	90
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247	Engineering the architectural diversity of heterogeneous metallic nanocrystals. *Nature Communications*, **2013**, 4, 1454	17.4	88
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245	One-step, confined growth of bimetallic tin-antimony nanorods in carbon nanotubes grown in situ for reversible Li+ ion storage. *Angewandte Chemie - International Edition*, **2006**, 45, 7039-42	16.4	88
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243	High-Yield Synthesis of Complex Gold Nanostructures in a Fungal System. *Journal of Physical Chemistry C*, **2007**, 111, 16858-16865	3.8	87
242	Carboxyl-terminated dendrimer-coated bioactive interface for protein microarray: high-sensitivity detection of antigen in complex biological samples. *Langmuir*, **2007**, 23, 5670-7	4	86
241	Tin Nanoparticle Loaded Graphite Anodes for Li-Ion Battery Applications. *Journal of the Electrochemical Society*, **2004**, 151, A1804	3.9	86

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234	Template synthesis of microporous carbon for direct methanol fuel cell application. *Carbon*, **2005**, 43, 2366-2373	10.4	79
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231	Electrochemical degradation of polyaniline in HClO4 and H2SO4. *Synthetic Metals*, **1995**, 72, 217-223	3.6	75
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229	Revealing isoelectronic size conversion dynamics of metal nanoclusters by a noncrystallization approach. *Nature Communications*, **2018**, 9, 1979	17.4	75
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227	Electrochemical Performance of Amorphous and Crystalline Sn2 P 2 O 7 Anodes in Secondary Lithium Batteries. *Journal of the Electrochemical Society*, **1999**, 146, 3623-3629	3.9	74
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224	Simultaneous Cobalt and Phosphorous Doping of MoS2 for Improved Catalytic Performance on Polysulfide Conversion in Lithium□Sulfur Batteries. *Advanced Energy Materials*, **2019**, 9, 1902096	21.8	72
223	Nanoscale Si coating on the pore walls of SnO(2) nanotube anode for Li rechargeable batteries. *Chemical Communications*, **2010**, 46, 622-4	5.8	72

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208	An Improved Procedure for Preparing Smaller and Nearly Monodispersed Thiol-Stabilized Platinum Nanoparticles. *Langmuir*, **2003**, 19, 10361-10365	4	63
207	Nanosized Pt and PtRu colloids as precursors for direct methanol fuel cell catalysts. *Journal of Materials Chemistry*, **2003**, 13, 3049		63
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205	Cycle life improvement of LiMn2O4 cathode in rechargeable lithium batteries. *Journal of Power Sources*, **1998**, 74, 228-233	8.9	62

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199	Multisegment PtRu Nanorods: Electrocatalysts with Adjustable Bimetallic Pair Sites. *Advanced Functional Materials*, **2005**, 15, 1459-1464	15.6	61
198	Preparation of spinel lithium manganese oxide by aqueous co-precipitation. *Journal of Power Sources*, **2000**, 85, 284-293	8.9	61
197	Infrared spectroscopic study of NO reduction by H2 on supported gold catalysts. *Journal of Catalysis*, **1986**, 102, 207-215	7.3	60
196	Improvement of Usable Capacity and Cyclability of Silicon-Based Anode Materials for Lithium Batteries by Sol-Gel Graphite Matrix. *Electrochemical and Solid-State Letters*, **2002**, 5, A107		59
195	Dissolution-recrystallization mechanism for the conversion of silver nanospheres to triangular nanoplates. *Journal of Colloid and Interface Science*, **2007**, 308, 157-61	9.3	58
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192	Plasmonic Oxygen-Deficient TiO Nanocrystals for Dual-Band Electrochromic Smart Windows with Efficient Energy Recycling. *Advanced Materials*, **2020**, 32, e2004686	24	57
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