

Do Youb Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2585577/publications.pdf>

Version: 2024-02-01

65
papers

2,244
citations

257450

24
h-index

214800

47
g-index

70
all docs

70
docs citations

70
times ranked

3761
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum Concave Nanocubes with High-Index Facets and Their Enhanced Activity for Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2773-2777.	13.8	414
2	Enhancement of Donor-Acceptor Polymer Bulk Heterojunction Solar Cell Power Conversion Efficiencies by Addition of Au Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5519-5523.	13.8	334
3	Synthesis of Gold Nano-hexapods with Controllable Arm Lengths and Their Tunable Optical Properties. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6328-6331.	13.8	84
4	Flexible binder-free graphene paper cathodes for high-performance Li-O ₂ batteries. <i>Carbon</i> , 2015, 93, 625-635.	10.3	74
5	Nano-sized ceria particles prepared by spray pyrolysis using polymeric precursor solution. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 127, 99-104.	3.5	58
6	Synthesis of Tetrahedral Gold Nanocrystals with High-Index Facets. <i>Crystal Growth and Design</i> , 2010, 10, 3321-3323.	3.0	58
7	Electrodeposited 3D porous silicon/copper films with excellent stability and high rate performance for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2478.	10.3	58
8	Semi-interpenetrating solid polymer electrolyte based on thiol-ene cross-linker for all-solid-state lithium batteries. <i>Journal of Power Sources</i> , 2016, 334, 154-161.	7.8	57
9	Synthesis of Single-Crystalline Hexagonal Graphene Quantum Dots from Solution Chemistry. <i>Nano Letters</i> , 2019, 19, 5437-5442.	9.1	57
10	Evolution of gold nanoparticles through Catalan, Archimedean, and Platonic solids. <i>CrystEngComm</i> , 2010, 12, 116-121.	2.6	48
11	Synthesis of nanosized Co ₃ O ₄ particles by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2006, 417, 254-258.	5.5	47
12	High-Performance Lithium-Oxygen Battery Electrolyte Derived from Optimum Combination of Solvent and Lithium Salt. <i>Advanced Science</i> , 2017, 4, 1700235.	11.2	43
13	Graphene paper with controlled pore structure for high-performance cathodes in Li-O ₂ batteries. <i>Carbon</i> , 2016, 100, 265-272.	10.3	42
14	Synthesis of chestnut-bur-like palladium nanostructures and their enhanced electrocatalytic activities for ethanol oxidation. <i>Nanoscale</i> , 2014, 6, 4182-4187.	5.6	39
15	Polyelemental Nanoparticles as Catalysts for a Li-O ₂ Battery. <i>ACS Nano</i> , 2021, 15, 4235-4244.	14.6	38
16	Seed-Mediated Synthesis of Gold Octahedra in High Purity and with Well-Controlled Sizes and Optical Properties. <i>Chemistry - A European Journal</i> , 2011, 17, 4759-4764.	3.3	32
17	Carbon nanofiber@platinum by a coaxial electrospinning and their improved electrochemical performance as a Li-O ₂ battery cathode. <i>Carbon</i> , 2018, 130, 94-104.	10.3	32
18	Facile fabrication of highly flexible graphene paper for high-performance flexible lithium ion battery anode. <i>RSC Advances</i> , 2015, 5, 3299-3305.	3.6	31

#	ARTICLE	IF	CITATIONS
19	Au@Pd nanostructures with tunable morphologies and sizes and their enhanced electrocatalytic activity. CrystEngComm, 2013, 15, 7113.	2.6	30
20	Au@Pd core-shell nanocubes with finely-controlled sizes. CrystEngComm, 2013, 15, 3385.	2.6	29
21	Facile synthesis of palladium nanodendrites supported on graphene nanoplatelets: an efficient catalyst for low overpotentials in lithium-oxygen batteries. Journal of Materials Chemistry A, 2016, 4, 578-586.	10.3	29
22	An electrochemically grown three-dimensional porous Si@Ni inverse opal structure for high-performance Li ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 6396-6401.	10.3	27
23	Extraordinary dendrite-free Li deposition on highly uniform facet wrinkled Cu substrates in carbonate electrolytes. Nano Energy, 2021, 82, 105736.	16.0	24
24	Understanding Reaction Pathways in High Dielectric Electrolytes Using $\text{Ir}_2\text{-Mo}_2\text{C}$ as a Catalyst for Li-CO_2 Batteries. ACS Applied Materials & Interfaces, 2020, 12, 32633-32641.	8.0	22
25	Effect of preparation temperature on the characteristics of $\text{PbO-B}_2\text{O}_3\text{-SiO}_2$ glass powders with spherical shape. Journal of Alloys and Compounds, 2007, 428, 344-349.	5.5	20
26	Robust synthesis of gold rhombic dodecahedra with well-controlled sizes and their optical properties. CrystEngComm, 2013, 15, 252-258.	2.6	19
27	Enhanced energy and O_2 evolution efficiency using an in situ electrochemically N-doped carbon electrode in non-aqueous Li-O_2 batteries. Journal of Materials Chemistry A, 2015, 3, 18843-18846.	10.3	17
28	High electrical conductivity and oxygen barrier property of polymer-stabilized graphene thin films. Carbon, 2017, 125, 492-499.	10.3	17
29	Improved electrochemical performance of ordered mesoporous carbon by incorporating macropores for Li-O_2 battery cathode. Carbon, 2018, 133, 118-126.	10.3	17
30	The characteristics of nano-sized manganese oxide particles prepared by spray pyrolysis. Journal of Alloys and Compounds, 2006, 425, 411-415.	5.5	16
31	Formation of toroidal Li_2O_2 in non-aqueous Li-O_2 batteries with $\text{Mo}_2\text{CT}_x\text{MXene/CNT}$ composite. RSC Advances, 2019, 9, 41120-41125.	3.6	16
32	Facile Synthesis of Composition-Controlled Graphene-Supported PtPd Alloy Nanocatalysts and Their Applications in Methanol Electro-Oxidation and Lithium-Oxygen Batteries. Chemistry - A European Journal, 2017, 23, 17136-17143.	3.3	15
33	Nanoscale Wrinkled Cu as a Current Collector for High-Loading Graphite Anode in Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 2576-2583.	8.0	15
34	Effect of Highly Periodic Au Nanopatterns on Dendrite Suppression in Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 60978-60986.	8.0	14
35	Influence of Gold Nanoparticles on the Characteristics of Plasma Display Panels. IEEE Transactions on Electron Devices, 2010, 57, 2644-2650.	3.0	13
36	Morphology control and temporal growth of a continuous silver shell on core-shell spheres. CrystEngComm, 2014, 16, 5142.	2.6	13

#	ARTICLE	IF	CITATIONS
37	Autoxidation in amide-based electrolyte and its suppression for enhanced oxygen efficiency and cycle performance in non-aqueous lithium oxygen battery. <i>Journal of Power Sources</i> , 2017, 347, 186-192.	7.8	12
38	Fine-sized LiCoO ₂ particles prepared by spray pyrolysis from polymeric precursor solution. <i>Materials Research Bulletin</i> , 2007, 42, 362-370.	5.2	11
39	Morphology Control of Gd ₂ O ₃ :Eu Phosphor Particles with Cubic and Monoclinic Phases Prepared by High-Temperature Spray Pyrolysis. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 5018-5022.	1.5	10
40	LiMn ₂ O ₄ particles prepared by spray pyrolysis from spray solution with citric acid and ethylene glycol. <i>Journal of Materials Science</i> , 2007, 42, 5369-5374.	3.7	10
41	Macroporous carbon nanofiber decorated with platinum nanorods as free-standing cathodes for high-performance Li-O ₂ batteries. <i>Carbon</i> , 2019, 154, 448-456.	10.3	10
42	Submicron size Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ particles prepared by spray pyrolysis from polymeric precursor solution. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 353-359.	2.2	9
43	Pt Nanoparticles-Macroporous Carbon Nanofiber Free-Standing Cathode for High-Performance Li-O ₂ Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020549.	2.9	9
44	In-situ electrochemical functionalization of carbon materials for high-performance Li-O ₂ batteries. <i>Journal of Energy Chemistry</i> , 2020, 48, 7-13.	12.9	8
45	Size-controlled gold nano-tetradecapods with tunable optical and electromagnetic properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3149-3156.	5.5	7
46	Shape- and size-controlled synthesis of noble metal nanoparticles. <i>Advances in Materials Research (South Korea)</i> , 2014, 3, 199-216.	0.6	7
47	Electrostatically Assembled Silicon-Carbon Composites Employing Amine-Functionalized Carbon Intra-interconnections for Lithium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 1868-1875.	5.1	6
48	A 3D Porous Inverse Opal Ni Structure on a Cu Current Collector for Stable Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2022, 5, e202100257.	4.7	5
49	The characteristics of Li(Co _x Ni _{1-x})O ₂ cathode powders formed from the fine-sized Co ₃ O ₄ /NiO precursor powders. <i>Journal of Alloys and Compounds</i> , 2008, 450, 457-462.	5.5	4
50	Stable cycling via absolute intercalation in graphite-based lithium-ion battery incorporated by solidified ether-based polymer electrolyte. <i>Materials Advances</i> , 2021, 2, 3898-3905.	5.4	4
51	One-pot synthesis of gold trisoctahedra with high-index facets. <i>Advances in Materials Research (South Korea)</i> , 2012, 1, 1-12.	0.6	4
52	LiMn ₂ O ₄ Powders Prepared from Nano-Sized Manganese Oxide Powders. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 241-244.	1.3	3
53	Comparative electrochemical property of solvent-free ceramic/polymer hybrid electrolytes incorporating sol-gel prepared Li-phosphates, Li(Al,Ge)(PO ₄) ₃ and Li(Al,Ti)(PO ₄) ₃ . <i>Journal of Alloys and Compounds</i> , 2020, 843, 155878.	5.5	3
54	Mechanism for Preserving Volatile Nitrogen Dioxide and Sustainable Redox Mediation in the Nonaqueous Lithium-Oxygen Battery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8159-8168.	8.0	3

#	ARTICLE	IF	CITATIONS
55	Fabrication of Highly Monodisperse and Small-Grain Platinum Hole-Cylinder Nanoparticles as a Cathode Catalyst for Li-O ₂ Batteries. ACS Applied Energy Materials, 2021, 4, 2514-2521.	5.1	3
56	The characteristics of Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ particles prepared from precursor particles with spherical shape obtained by spray pyrolysis. Ceramics International, 2007, 33, 1093-1098.	4.8	2
57	Back Cover: Enhancement of Donor-Acceptor Polymer Bulk Heterojunction Solar Cell Power Conversion Efficiencies by Addition of Au Nanoparticles (Angew. Chem. Int. Ed. 24/2011). Angewandte Chemie - International Edition, 2011, 50, 5404-5404.	13.8	2
58	Three-dimensional SnO ₂ nanoparticles synthesized by joule heating as anode materials for lithium ion batteries. Nano Express, 2022, 3, 025005.	2.4	2
59	P-91 : AC Plasma Display Panel with Gold Nano-particles Inserted into an MgO Protective Layer. Digest of Technical Papers SID International Symposium, 2010, 41, 1588.	0.3	1
60	Enhancement of Donor-Acceptor Polymer Bulk Heterojunction Solar Cell Power Conversion Efficiencies by Addition of Au Nanoparticles (Angew. Chem. 24/2011). Angewandte Chemie, 2011, 123, n/a-n/a.	2.0	0
61	Free-Standing Graphene-Based Papers with Controlled Pore Structures for High-Performance Li-O ₂ Battery Cathodes. ECS Meeting Abstracts, 2016, , .	0.0	0
62	All-Solid-State Lithium Batteries Based on Semi-Interpenetrating Network Solid Polymer Electrolyte and Composite Electrode. ECS Meeting Abstracts, 2017, , .	0.0	0
63	Pt Nanorods-Decorated Macroporous Carbon Nanofiber Free-Standing Cathodes for High-Performance Li-O ₂ Battery. ECS Meeting Abstracts, 2019, , .	0.0	0
64	Electrical modification of a composite electrode for room temperature operable polyethylene oxide-based lithium polymer batteries. Materials Research Express, 2020, 7, 075504.	1.6	0
65	Sea-Urchin-like Hierarchical Carbon Spheres with Conical Pores as a Three-Dimensional Lithium Host for Dendrite Suppression. ACS Applied Energy Materials, 2022, 5, 5919-5927.	5.1	0