

Sungeun Yang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,129
citations

279798

23
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

5666
citing authors

#	ARTICLE	IF	CITATIONS
1	A rigorous electrochemical ammonia synthesis protocol with quantitative isotope measurements. <i>Nature</i> , 2019, 570, 504-508.	27.8	1,006
2	Single-Atom Catalyst of Platinum Supported on Titanium Nitride for Selective Electrochemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2058-2062.	13.8	708
3	Toward the Decentralized Electrochemical Production of H ₂ O ₂ : A Focus on the Catalysis. <i>ACS Catalysis</i> , 2018, 8, 4064-4081.	11.2	663
4	Support Effects in Single-Atom Platinum Catalysts for Electrochemical Oxygen Reduction. <i>ACS Catalysis</i> , 2017, 7, 1301-1307.	11.2	363
5	Highly Durable Platinum Single-Atom Alloy Catalyst for Electrochemical Reactions. <i>Advanced Energy Materials</i> , 2018, 8, 1701476.	19.5	152
6	Atomically Dispersed Platinum on Gold Nano-Octahedra with High Catalytic Activity on Formic Acid Oxidation. <i>ACS Catalysis</i> , 2013, 3, 437-443.	11.2	125
7	A Versatile Method for Ammonia Detection in a Range of Relevant Electrolytes via Direct Nuclear Magnetic Resonance Techniques. <i>ACS Catalysis</i> , 2019, 9, 5797-5802.	11.2	97
8	Single-Atom Catalyst of Platinum Supported on Titanium Nitride for Selective Electrochemical Reactions. <i>Angewandte Chemie</i> , 2016, 128, 2098-2102.	2.0	94
9	Employing electrostatic self-assembly of tailored nickel sulfide nanoparticles for quasi-solid-state dye-sensitized solar cells with Pt-free counter electrodes. <i>Chemical Communications</i> , 2012, 48, 9501.	4.1	84
10	Shaped Ir-Ni bimetallic nanoparticles for minimizing Ir utilization in oxygen evolution reaction. <i>Chemical Communications</i> , 2016, 52, 5641-5644.	4.1	78
11	Electronic structure modification of platinum on titanium nitride resulting in enhanced catalytic activity and durability for oxygen reduction and formic acid oxidation. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 35-42.	20.2	63
12	Carbon catalysts for electrochemical hydrogen peroxide production in acidic media. <i>Electrochimica Acta</i> , 2018, 272, 192-202.	5.2	63
13	Gram-scale synthesis of highly active and durable octahedral PtNi nanoparticle catalysts for proton exchange membrane fuel cell. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 530-537.	20.2	63
14	Synthesis of biolubricants using sulfated zirconia catalysts. <i>Applied Catalysis A: General</i> , 2013, 455, 164-171.	4.3	54
15	Promotion of Pt/CeO ₂ catalyst by hydrogen treatment for low-temperature CO oxidation. <i>RSC Advances</i> , 2019, 9, 27002-27012.	3.6	53
16	Highly active, selective, and stable Pd single-atom catalyst anchored on N-doped hollow carbon sphere for electrochemical H ₂ O ₂ synthesis under acidic conditions. <i>Journal of Catalysis</i> , 2021, 393, 313-323.	6.2	43
17	Shape-Controlled Nanocrystals for Catalytic Applications. <i>Catalysis Surveys From Asia</i> , 2012, 16, 14-27.	2.6	42
18	Selective hydrogenation of furanic aldehydes using Ni nanoparticle catalysts capped with organic molecules. <i>Journal of Catalysis</i> , 2016, 344, 609-615.	6.2	39

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19	In situ shaping of Pt nanoparticles directly overgrown on carbon supports. <i>Chemical Communications</i> , 2012, 48, 6396.	4.1	37
20	Highly active and thermally stable single-atom catalysts for high-temperature electrochemical devices. <i>Energy and Environmental Science</i> , 2020, 13, 4903-4920.	30.8	35
21	Protonic ceramic electrolysis cells for fuel production: a brief review. <i>Journal of the Korean Ceramic Society</i> , 2020, 57, 480-494.	2.3	34
22	Effect of secondary metal catalysts on butane internal steam reforming operation of thin-film solid oxide fuel cells at 500–600 °C. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118349.	20.2	27
23	Platinum–titanium intermetallic nanoparticle catalysts for oxygen reduction reaction with enhanced activity and durability. <i>Electrochemistry Communications</i> , 2016, 66, 66-70.	4.7	23
24	Production of acrylic acid from biomass-derived allyl alcohol by selective oxidation using Au/ceria catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 3616-3622.	4.1	19
25	Improved electrochemical performance and durability of butane-operating low-temperature solid oxide fuel cell through palladium infiltration. <i>International Journal of Energy Research</i> , 2020, 44, 9995-10007.	4.5	17
26	Naturally diffused sintering aid for highly conductive bilayer electrolytes in solid oxide cells. <i>Science Advances</i> , 2021, 7, eabj8590.	10.3	16
27	Highly efficient and robust Pt ensembles on mesoporous alumina for reversible H ₂ charge and release of commercial benzyltoluene molecules. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121061.	20.2	16
28	A distinct platinum growth mode on shaped gold nanocrystals. <i>Chemical Communications</i> , 2012, 48, 257-259.	4.1	15
29	A nanoarchitected cermet composite with extremely low Ni content for stable high-performance solid oxide fuel cells. <i>Acta Materialia</i> , 2021, 206, 116580.	7.9	15
30	Examining the rudimentary steps of the oxygen reduction reaction on single-atomic Pt using Ti-based non-oxide supports. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 58, 208-215.	5.8	14
31	Achieving performance and longevity with butane-operated low-temperature solid oxide fuel cells using low-cost Cu and CeO ₂ catalysts. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2460-2473.	10.3	12
32	Robust solid-state interface with a deformable glass interlayer in sulfide-based all-solid-state batteries. <i>Solid State Ionics</i> , 2020, 346, 115217.	2.7	11
33	Roles of Polymerized Anionic Clusters Stimulating for Hydrolysis Deterioration in Li ₇ P ₃ S ₁₁ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 19509-19516.	3.1	10
34	The proton uptake process in double perovskite triple ionic-electronic conducting oxides for protonic ceramic cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 16127-16136.	10.3	10
35	One-pot synthesis of Pd@PdPt core–shell nanocubes on carbon supports. <i>RSC Advances</i> , 2014, 4, 63677-63680.	3.6	9
36	Readily Constructed Glass Piston Pump for Gas Recirculation. <i>ACS Omega</i> , 2020, 5, 16455-16459.	3.5	5

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37	Degradation Mechanism of Oxygen Electrode Under Fuel-Cell and Electrolysis Mode Operations. ECS Transactions, 2019, 91, 681-685.	0.5	2
38	Improved strontium segregation suppression of lanthanum strontium cobalt oxide cathode via chemical etching and atomic layer deposition. International Journal of Energy Research, 2022, 46, 12467-12475.	4.5	2
39	Exploration of a Ce _{0.65} Zr _{0.25} Pr _{0.1} O ₂ -Based Electrocatalyst That Exhibits Rapid Performance Deterioration Despite Its High Oxygen Storage Capability. ACS Applied Energy Materials, 0, , .	5.1	1
40	Decentralized Electrochemical Production of H ₂ O ₂ : A Focus on Catalysis and Single-Atom Catalysts. ECS Meeting Abstracts, 2019, , .	0.0	0