

Gun-hee Moon

List of Publications by Year in descending order

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43
papers

3,539
citations

201575

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243529

44
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44
all docs

44
docs citations

44
times ranked

5001
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinduced charge transfer processes in solar photocatalysis based on modified TiO ₂ . Energy and Environmental Science, 2016, 9, 411-433.	15.6	494
2	Solar production of H ₂ O ₂ on reduced graphene oxide@TiO ₂ hybrid photocatalysts consisting of earth-abundant elements only. Energy and Environmental Science, 2014, 7, 4023-4028.	15.6	311
3	Solar Photoconversion Using Graphene/TiO ₂ Composites: Nanographene Shell on TiO ₂ Core versus TiO ₂ Nanoparticles on Graphene Sheet. Journal of Physical Chemistry C, 2012, 116, 1535-1543.	1.5	292
4	Eco-Friendly Photochemical Production of H ₂ O ₂ through O ₂ Reduction over Carbon Nitride Frameworks Incorporated with Multiple Heteroelements. ACS Catalysis, 2017, 7, 2886-2895.	5.5	287
5	Ultra-efficient and durable photoelectrochemical water oxidation using elaborately designed hematite nanorod arrays. Nano Energy, 2017, 39, 211-218.	8.2	171
6	Oxidation of organic pollutants by peroxymonosulfate activated with low-temperature-modified nanodiamonds: Understanding the reaction kinetics and mechanism. Applied Catalysis B: Environmental, 2018, 237, 432-441.	10.8	161
7	Boosting up the Low Catalytic Activity of Silver for H ₂ Production on Ag/TiO ₂ Photocatalyst: Thiocyanate as a Selective Modifier. ACS Catalysis, 2016, 6, 821-828.	5.5	153
8	Molecular-Level Understanding of the Photocatalytic Activity Difference between Anatase and Rutile Nanoparticles. Angewandte Chemie - International Edition, 2014, 53, 14036-14041.	7.2	143
9	Platinum-like Behavior of Reduced Graphene Oxide as a Cocatalyst on TiO ₂ for the Efficient Photocatalytic Oxidation of Arsenite. Environmental Science and Technology Letters, 2014, 1, 185-190.	3.9	114
10	Robust Co-catalytic Performance of Nanodiamonds Loaded on WO ₃ for the Decomposition of Volatile Organic Compounds under Visible Light. ACS Catalysis, 2016, 6, 8350-8360.	5.5	98
11	Photochemical loading of metal nanoparticles on reduced graphene oxide sheets using phosphotungstate. Carbon, 2011, 49, 3454-3462.	5.4	97
12	Selective charge transfer to dioxygen on KPF6-modified carbon nitride for photocatalytic synthesis of H ₂ O ₂ under visible light. Journal of Catalysis, 2018, 357, 51-58.	3.1	89
13	Activation of peroxymonosulfate on visible light irradiated TiO ₂ via a charge transfer complex path. Chemical Engineering Journal, 2018, 346, 249-257.	6.6	85
14	How g-C ₃ N ₄ Works and Is Different from TiO ₂ as an Environmental Photocatalyst: Mechanistic View. Environmental Science & Technology, 2020, 54, 497-506.	4.6	76
15	Minireview: Selective production of hydrogen peroxide as a clean oxidant over structurally tailored carbon nitride photocatalysts. Catalysis Today, 2019, 335, 55-64.	2.2	72
16	TiO ₂ complexed with dopamine-derived polymers and the visible light photocatalytic activities for water pollutants. Journal of Catalysis, 2017, 346, 92-100.	3.1	71
17	Optimizing Ni-Fe Oxide Electrocatalysts for Oxygen Evolution Reaction by Using Hard Templating as a Toolbox. ACS Applied Energy Materials, 2019, 2, 1199-1209.	2.5	71
18	Highly Active Cobalt-Based Electrocatalysts with Facile Incorporation of Dopants for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 3491-3495.	7.2	67

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19	Ag(I) ions working as a hole-transfer mediator in photoelectrocatalytic water oxidation on WO ₃ film. Nature Communications, 2020, 11, 967.	5.8	66
20	Dual Role of Silver Moieties Coupled with Ordered Mesoporous Cobalt Oxide towards Electrocatalytic Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2020, 59, 16544-16552.	7.2	64
21	Crystal phase-dependent generation of mobile OH radicals on TiO ₂ : Revisiting the photocatalytic oxidation mechanism of anatase and rutile. Applied Catalysis B: Environmental, 2021, 286, 119905.	10.8	61
22	Synergistic combination of bandgap-modified carbon nitride and WO ₃ for visible light-induced oxidation of arsenite accelerated by in-situ Fenton reaction. Applied Catalysis B: Environmental, 2017, 218, 819-824.	10.8	57
23	Selective dual-purpose photocatalysis for simultaneous H ₂ evolution and mineralization of organic compounds enabled by a Cr ₂ O ₃ barrier layer coated on Rh/SrTiO ₃ . Chemical Communications, 2016, 52, 9636-9639.	2.2	39
24	Highly Active Cobalt-Based Electrocatalysts with Facile Incorporation of Dopants for the Oxygen Evolution Reaction. Angewandte Chemie, 2019, 131, 3529-3533.	1.6	36
25	Chemical-free growth of metal nanoparticles on graphene oxide sheets under visible light irradiation. RSC Advances, 2012, 2, 2205.	1.7	31
26	Catalytic templating approaches for three-dimensional hollow carbon/graphene oxide nano-architectures. Nanoscale, 2013, 5, 6291.	2.8	31
27	Photocatalytic oxidation mechanism of arsenite on tungsten trioxide under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 311, 35-40.	2.0	28
28	Oxalate-TiO ₂ complex-mediated oxidation of pharmaceutical pollutants through ligand-to-metal charge transfer under visible light. Chemical Engineering Journal, 2018, 343, 689-698.	6.6	28
29	Structural Engineering of 3D Carbon Materials from Transition Metal Ion-Exchanged Y Zeolite Templates. Chemistry of Materials, 2018, 30, 3779-3788.	3.2	28
30	Nitrogen-Doped Mesostructured Carbon-Supported Metallic Cobalt Nanoparticles for Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 6672-6680.	2.5	28
31	Photocatalytic Synthesis of Pure and Water-Dispersible Graphene Monosheets. Chemistry - A European Journal, 2012, 18, 2762-2767.	1.7	27
32	Dual Role of Silver Moieties Coupled with Ordered Mesoporous Cobalt Oxide towards Electrocatalytic Oxygen Evolution Reaction. Angewandte Chemie, 2020, 132, 16687.	1.6	23
33	Visible light-induced degradation of sulfa drugs on pure TiO ₂ through ligand-to-metal charge transfer. Separation and Purification Technology, 2018, 203, 242-250.	3.9	19
34	Carbon dioxide-assisted fabrication of highly uniform submicron-sized colloidal carbon spheres via hydrothermal carbonization using soft drink. Colloid and Polymer Science, 2012, 290, 1567-1573.	1.0	17
35	Spontaneous oxidation of arsenite on platinumized TiO ₂ through activating molecular oxygen under ambient aqueous condition. Applied Catalysis B: Environmental, 2020, 260, 118146.	10.8	16
36	Reactor Design and Kinetic Study on Adsorption/Desorption of CO and Cl ₂ for Industrial Phosgene Synthesis. Chemie-Ingenieur-Technik, 2018, 90, 1513-1519.	0.4	10

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37	Nafion-Assisted Noncovalent Assembly of Molecular Sensitizers and Catalysts for Sustained Photoreduction of CO ₂ to CO. ACS Sustainable Chemistry and Engineering, 2020, 8, 3709-3717.	3.2	10
38	A Highly Efficient Oxygen Evolution Electrocatalyst Derived from a Metal-Organic Framework and Ketjenblack Carbon Material. ChemPlusChem, 2021, 86, 1106-1115.	1.3	10
39	Understanding (photo)electrocatalysis for the conversion of methane to valuable chemicals through partial oxidation processes. Journal of Materials Chemistry A, 2022, 10, 19107-19128.	5.2	9
40	<i>In situ</i> total scattering experiments of nucleation and crystallisation of tantalum-based oxides: from highly dilute solutions <i>via</i> cluster formation to nanoparticles. Nanoscale, 2021, 13, 150-162.	2.8	7
41	Biomimetic photocatalysts for the conversion of aqueous- and gas-phase nitrogen species to molecular nitrogen <i>via</i> denitrification and ammonia oxidation. Journal of Materials Chemistry A, 2021, 9, 19179-19205.	5.2	6
42	Preparation of Practical High-Performance Electrodes for Acidic and Alkaline Media Water Electrolysis. ChemSusChem, 2021, , .	3.6	6
43	CHAPTER 5. Photoexcitation in Pure and Modified Semiconductor Photocatalysts. RSC Energy and Environment Series, 2016, , 110-128.	0.2	1