

Seunghyun Weon

List of Publications by Year in descending order

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29
papers

3,312
citations

201575

27
h-index

477173

29
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docs citations

29
times ranked

3187
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the collective effects of moisture and oxygen on the photocatalytic degradation of m-Xylene using a titanium dioxide supported platinum catalyst. <i>Chemical Engineering Journal</i> , 2022, 439, 135747.	6.6	20
2	Single-Atom Cobalt Incorporated in a 2D Graphene Oxide Membrane for Catalytic Pollutant Degradation. <i>Environmental Science & Technology</i> , 2022, 56, 1341-1351.	4.6	72
3	Oxygen vacancy engineering of cerium oxide for the selective photocatalytic oxidation of aromatic pollutants. <i>Journal of Hazardous Materials</i> , 2021, 404, 123976.	6.5	63
4	Environmental Materials beyond and below the Nanoscale: Single-Atom Catalysts. <i>ACS ES&T Engineering</i> , 2021, 1, 157-172.	3.7	88
5	Cobalt Single Atoms on Tetrapyridomacrocyclic Support for Efficient Peroxymonosulfate Activation. <i>Environmental Science & Technology</i> , 2021, 55, 1242-1250.	4.6	185
6	Site-Selective Loading of Single-Atom Pt on TiO ₂ for Photocatalytic Oxidation and Reductive Hydrodefluorination. <i>ACS ES&T Engineering</i> , 2021, 1, 512-522.	3.7	42
7	Conflicting Roles of Coordination Number on Catalytic Performance of Single-Atom Pt Catalysts. <i>ACS Catalysis</i> , 2021, 11, 5586-5592.	5.5	38
8	Photoelectrocatalysis as a high-efficiency platform for pulping wastewater treatment and energy production. <i>Chemical Engineering Journal</i> , 2021, 412, 128612.	6.6	49
9	Membrane-Confined Iron Oxychloride Nanocatalysts for Highly Efficient Heterogeneous Fenton Water Treatment. <i>Environmental Science & Technology</i> , 2021, 55, 9266-9275.	4.6	135
10	Platinized titanium dioxide (Pt/TiO ₂) as a multi-functional catalyst for thermocatalysis, photocatalysis, and photothermal catalysis for removing air pollutants. <i>Applied Materials Today</i> , 2021, 23, 100993.	2.3	21
11	Neighboring Pd single atoms surpass isolated single atoms for selective hydrodehalogenation catalysis. <i>Nature Communications</i> , 2021, 12, 5179.	5.8	87
12	Post-Synthesis modification of metal-organic frameworks using Schiff base complexes for various catalytic applications. <i>Chemical Engineering Journal</i> , 2021, 423, 130230.	6.6	42
13	Self-wetting triphase photocatalysis for effective and selective removal of hydrophilic volatile organic compounds in air. <i>Nature Communications</i> , 2021, 12, 6259.	5.8	50
14	Mechanism of Heterogeneous Fenton Reaction Kinetics Enhancement under Nanoscale Spatial Confinement. <i>Environmental Science & Technology</i> , 2020, 54, 10868-10875.	4.6	188
15	Amorphous Pd-Loaded Ti ₄ O ₇ Electrode for Direct Anodic Destruction of Perfluorooctanoic Acid. <i>Environmental Science & Technology</i> , 2020, 54, 10954-10963.	4.6	76
16	Enhanced Pollutant Adsorption and Regeneration of Layered Double Hydroxide-Based Photoregenerable Adsorbent. <i>Environmental Science & Technology</i> , 2020, 54, 9106-9115.	4.6	43
17	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic H ₂ O ₂ production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6376-6382.	3.3	245
18	Substrate-specific mineralization and deactivation behaviors of TiO ₂ as an air-cleaning photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119145.	10.8	56

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19	Triplet-Triplet Annihilation Upconversion in Broadly Absorbing Layered Film Systems for Sub-Bandgap Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13304-13318.	4.0	29
20	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. <i>Nature Communications</i> , 2019, 10, 940.	5.8	349
21	Status and challenges in photocatalytic nanotechnology for cleaning air polluted with volatile organic compounds: visible light utilization and catalyst deactivation. <i>Environmental Science: Nano</i> , 2019, 6, 3185-3214.	2.2	124
22	Dual-components modified TiO ₂ with Pt and fluoride as deactivation-resistant photocatalyst for the degradation of volatile organic compound. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 1-8.	10.8	125
23	Active {001} Facet Exposed TiO ₂ Nanotubes Photocatalyst Filter for Volatile Organic Compounds Removal: From Material Development to Commercial Indoor Air Cleaner Application. <i>Environmental Science & Technology</i> , 2018, 52, 9330-9340.	4.6	121
24	Freestanding doubly open-ended TiO ₂ nanotubes for efficient photocatalytic degradation of volatile organic compounds. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 386-392.	10.8	73
25	Scaffold-Like Titanium Nitride Nanotubes with a Highly Conductive Porous Architecture as a Nanoparticle Catalyst Support for Oxygen Reduction. <i>ACS Catalysis</i> , 2016, 6, 3914-3920.	5.5	51
26	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. <i>Environmental Science & Technology</i> , 2016, 50, 10134-10142.	4.6	546
27	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet-Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. <i>Environmental Science & Technology</i> , 2016, 50, 11184-11192.	4.6	53
28	Robust Co-catalytic Performance of Nanodiamonds Loaded on WO ₃ for the Decomposition of Volatile Organic Compounds under Visible Light. <i>ACS Catalysis</i> , 2016, 6, 8350-8360.	5.5	98
29	TiO ₂ Nanotubes with Open Channels as Deactivation-Resistant Photocatalyst for the Degradation of Volatile Organic Compounds. <i>Environmental Science & Technology</i> , 2016, 50, 2556-2563.	4.6	243