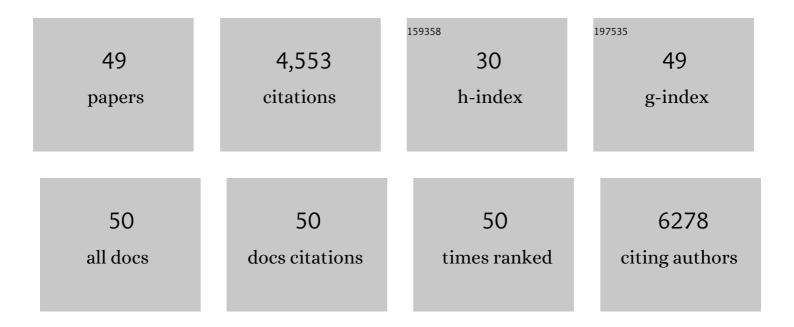
## Hyoung–il Kim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. Environmental Science & Technology, 2016, 50, 10134-10142.	4.6	546
2	Photoinduced charge transfer processes in solar photocatalysis based on modified TiO <sub>2</sub> . Energy and Environmental Science, 2016, 9, 411-433.	15.6	494
3	Solar Photoconversion Using Graphene/TiO <sub>2</sub> Composites: Nanographene Shell on TiO <sub>2</sub> Core versus TiO <sub>2</sub> Nanoparticles on Graphene Sheet. Journal of Physical Chemistry C, 2012, 116, 1535-1543.	1.5	292
4	Exploring the Role of Persulfate in the Activation Process: Radical Precursor Versus Electron Acceptor. Environmental Science & Technology, 2017, 51, 10090-10099.	4.6	282
5	Surface-loaded metal nanoparticles for peroxymonosulfate activation: Efficiency and mechanism reconnaissance. Applied Catalysis B: Environmental, 2019, 241, 561-569.	10.8	260
6	Enhanced Photocatalytic and Photoelectrochemical Activity in the Ternary Hybrid of CdS/TiO <sub>2</sub> /WO <sub>3</sub> through the Cascadal Electron Transfer. Journal of Physical Chemistry C, 2011, 115, 9797-9805.	1.5	238
7	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. Applied Catalysis B: Environmental, 2018, 229, 121-129.	10.8	171
8	Harnessing low energy photons (635 nm) for the production of H <sub>2</sub> O <sub>2</sub> using upconversion nanohybrid photocatalysts. Energy and Environmental Science, 2016, 9, 1063-1073.	15.6	160
9	Dual-Color Emissive Upconversion Nanocapsules for Differential Cancer Bioimaging <i>In Vivo</i> . ACS Nano, 2016, 10, 1512-1521.	7.3	157
10	N-doped TiO <sub>2</sub> nanotubes coated with a thin TaO <sub>x</sub> N <sub>y</sub> layer for photoelectrochemical water splitting: dual bulk and surface modification of photoanodes. Energy and Environmental Science, 2015, 8, 247-257.	15.6	155
11	Boosting up the Low Catalytic Activity of Silver for H <sub>2</sub> Production on Ag/TiO <sub>2</sub> Photocatalyst: Thiocyanate as a Selective Modifier. ACS Catalysis, 2016, 6, 821-828.	5.5	153
12	Promoting water photooxidation on transparent WO3 thin films using an alumina overlayer. Energy and Environmental Science, 2013, 6, 3732.	15.6	134
13	Platinum-like Behavior of Reduced Graphene Oxide as a Cocatalyst on TiO <sub>2</sub> for the Efficient Photocatalytic Oxidation of Arsenite. Environmental Science and Technology Letters, 2014, 1, 185-190.	3.9	114
14	A Strong Electronic Coupling between Graphene Nanosheets and Layered Titanate Nanoplates: A Soft hemical Route to Highly Porous Nanocomposites with Improved Photocatalytic Activity. Small, 2012, 8, 1038-1048.	5.2	113
15	Robust Co-catalytic Performance of Nanodiamonds Loaded on WO <sub>3</sub> for the Decomposition of Volatile Organic Compounds under Visible Light. ACS Catalysis, 2016, 6, 8350-8360.	5.5	98
16	Electrochemical oxidation of organics in sulfate solutions on boron-doped diamond electrode: Multiple pathways for sulfate radical generation. Applied Catalysis B: Environmental, 2019, 254, 156-165.	10.8	91
17	Graphene oxide embedded into TiO2 nanofiber: Effective hybrid photocatalyst for solar conversion. Journal of Catalysis, 2014, 309, 49-57.	3.1	77
18	Inhibition of CO poisoning on Pt catalyst coupled with the reduction of toxic hexavalent chromium in a dual-functional fuel cell. Scientific Reports, 2014, 4, 7450.	1.6	77

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19	Highly durable photoelectrochemical H <sub>2</sub> O <sub>2</sub> production <i>via</i> dual photoanode and cathode processes under solar simulating and external bias-free conditions. Energy and Environmental Science, 2020, 13, 1730-1742.	15.6	73
20	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
21	Ag(I) ions working as a hole-transfer mediator in photoelectrocatalytic water oxidation on WO3 film. Nature Communications, 2020, 11, 967.	5.8	66
22	Surface-modified polymer nanofiber membrane for high-efficiency microdust capturing. Chemical Engineering Journal, 2018, 339, 204-213.	6.6	62
23	Dual-functional photocatalysis using a ternary hybrid of TiO2 modified with graphene oxide along with Pt and fluoride for H2-producing water treatment. Journal of Catalysis, 2015, 330, 387-395.	3.1	53
24	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet–Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. Environmental Science & Technology, 2016, 50, 11184-11192.	4.6	53
25	Scaffold-Like Titanium Nitride Nanotubes with a Highly Conductive Porous Architecture as a Nanoparticle Catalyst Support for Oxygen Reduction. ACS Catalysis, 2016, 6, 3914-3920.	5.5	51
26	Recent advances in materials for and applications of triplet–triplet annihilation-based upconversion. Journal of Materials Chemistry C, 2022, 10, 4483-4496.	2.7	44
27	The Myth of Visible Light Photocatalysis Using Lanthanide Upconversion Materials. Environmental Science & Technology, 2018, 52, 2973-2980.	4.6	42
28	Optimal Ag concentration for H2 production via Ag:TiO2 nanocomposite thin film photoanode. International Journal of Hydrogen Energy, 2012, 37, 3056-3065.	3.8	41
29	Implementation of Ag nanoparticle incorporated WO3 thin film photoanode for hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 2117-2125.	3.8	32
30	Self-assembled TiO2 agglomerates hybridized with reduced-graphene oxide: A high-performance hybrid photocatalyst for solar energy conversion. Chemical Engineering Journal, 2015, 262, 409-416.	6.6	32
31	Chemical-free growth of metal nanoparticles on graphene oxide sheets under visible light irradiation. RSC Advances, 2012, 2, 2205.	1.7	31
32	Solar-to-hydrogen peroxide conversion of photocatalytic carbon dots with anthraquinone: Unveiling the dual role of surface functionalities. Applied Catalysis B: Environmental, 2022, 312, 121379.	10.8	28
33	Titanium dioxide surface modified with both palladium and fluoride as an efficient photocatalyst for the degradation of urea. Separation and Purification Technology, 2019, 209, 580-587.	3.9	26
34	Revisiting the Oxidizing Capacity of the Periodate–H <sub>2</sub> O <sub>2</sub> Mixture: Identification of the Primary Oxidants and Their Formation Mechanisms. Environmental Science & Technology, 2022, 56, 5763-5774.	4.6	26
35	Squaraine-sensitized composite of a reduced graphene oxide/TiO <sub>2</sub> photocatalyst: π–π stacking as a new method of dye anchoring. Journal of Materials Chemistry A, 2015, 3, 232-239.	5.2	25
36	To What Extent Can Surface Morphology Influence the Photoelectrochemical Performance of Au:WO <sub>3</sub> Electrodes?. Journal of Physical Chemistry C, 2015, 119, 1271-1279.	1.5	23

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37	Temperature-boosted photocatalytic H2 production and charge transfer kinetics on TiO2 under UV and visible light. Photochemical and Photobiological Sciences, 2016, 15, 1247-1253.	1.6	23
38	Anodic TiO2 nanotube layer directly formed on the inner surface of Ti pipe for a tubular photocatalytic reactor. Applied Catalysis A: General, 2016, 521, 174-181.	2.2	17
39	Spontaneous oxidation of arsenite on platinized TiO2 through activating molecular oxygen under ambient aqueous condition. Applied Catalysis B: Environmental, 2020, 260, 118146.	10.8	16
40	Revisiting the Role of Peroxymonosulfate in TiO <sub>2</sub> -Mediated Photocatalytic Oxidation: Dependence of Kinetic Enhancement on Target Substrate and Surface Platinization. ACS ES&T Engineering, 2021, 1, 1530-1541.	3.7	16
41	Evaluation of thermal properties and acetaldehyde adsorption performance of sustainable composites using waste wood and biochar. Environmental Research, 2021, 196, 110910.	3.7	15
42	Synchronized methylene blue removal using Fenton-like reaction induced by phosphorous oxoanion and submerged plasma irradiation process. Journal of Environmental Management, 2018, 206, 77-84.	3.8	14
43	Single-photon-driven up-/down-conversion nanohybrids for <i>in vivo</i> mercury detection and real-time tracking. Journal of Materials Chemistry A, 2020, 8, 1668-1677.	5.2	13
44	Hand-ground fullerene-nanodiamond composite for photosensitized water treatment and photodynamic cancer therapy. Journal of Colloid and Interface Science, 2021, 587, 101-109.	5.0	12
45	Surface and bulk modification for advanced electrode design in photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2020, 45, 5793-5815.	3.8	11
46	Graphitic domain layered titania nanotube arrays for separation and shuttling of solar-driven electrons. Journal of Materials Chemistry A, 2013, 1, 203-207.	5.2	7
47	Synergistic effect of Sn doping and hydrogenation on hematite electrodes for photoelectrochemical water oxidation. Materials Chemistry Frontiers, 2021, 5, 6592-6602.	3.2	7
48	Molybdenum-Doped Nickel Disulfide (NiS <sub>2</sub> :Mo) Microspheres as an Active Anode Material for High-Performance Durable Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 6734-6745.	2.5	5
49	Low-temperature hydrogenation of nanodiamond as a strategy to fabricate sp-hybridized nanocarbon as a high-performance persulfate activator. Applied Catalysis B: Environmental, 2022, 316, 121589.	10.8	4