

Yu-Kwon Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Copper-Catalyzed Aerobic Formation of Unstable Sulfinyl Radicals for the Synthesis of Sulfinates and Thiosulfonates. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 56-61.	2.1	78
2	Alcohol Chemistry on Rutile TiO ₂ (110): The Influence of Alkyl Substituents on Reactivity and Selectivity. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18236-18242.	1.5	71
3	Nitrogen bonding structure in ultrathin silicon oxynitride films on Si(100) prepared by plasma nitridation. <i>Physical Review B</i> , 2004, 70, .	1.1	42
4	Growth of Large-Area SnS Films with Oriented 2D SnS Layers for Energy-Efficient Broadband Optoelectronics. <i>Advanced Functional Materials</i> , 2018, 28, 1804737.	7.8	42
5	Dominant Influence of the Surface on the Photoactivity of Shape-Controlled Anatase TiO ₂ Nanocrystals. <i>ACS Catalysis</i> , 2015, 5, 3316-3322.	5.5	35
6	2D layer-embedded transparent photovoltaics. <i>Nano Energy</i> , 2020, 68, 104328.	8.2	34
7	Photocurrent Enhancement by a Rapid Thermal Treatment of Nanodisk-Shaped SnS Photocathodes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6099-6105.	2.1	33
8	Photoemission Study of N-Doped TiO ₂ (110) with NH ₃ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 18618-18624.	1.5	25
9	Observation of temperature-dependent kinetics for catalytic CO oxidation over TiO ₂ -supported Pt catalysts. <i>Chemical Physics Letters</i> , 2017, 685, 282-287.	1.2	21
10	Photoemission study on the adsorption of ethanol on clean and oxidized rutile TiO ₂ (110)-1 Å ⁻¹ surfaces. <i>Surface Science</i> , 2011, 605, 2082-2086.	0.8	19
11	Alcohol Dehydration on Monooxo W=O and Dioxo O=W=O Species. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2168-2172.	2.1	18
12	Unexpected Nondissociative Binding of N ₂ O on Oxygen Vacancies on a Rutile TiO ₂ (110)-1 Å ⁻¹ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 1145-1150.	1.5	15
13	Facile Formation of Nanodisk-Shaped Orthorhombic SnS Layers from SnS ₂ Particles for Photoelectrocatalytic Hydrogen Production. <i>ChemNanoMat</i> , 2017, 3, 591-600.	1.5	15
14	Highly Efficient Iridium-Catalyzed Production of Hydrogen and Lactate from Glycerol: Rapid Hydrogen Evolution by Bimetallic Iridium Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4064-4068.	1.0	13
15	Ir(NHC)-Catalyzed Synthesis of ¹² C-Alkylated Alcohols via Borrowing Hydrogen Strategy: Influence of Bimetallic Structure. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3090-3097.	2.1	13
16	Quantitative evaluation of the densities of active species of N ₂ in the afterglow of Ar-embedded N ₂ RF plasma. <i>Current Applied Physics</i> , 2015, 15, 1453-1462.	1.1	11
17	Discharge source-dependent variation in the densities of active species in the flowing afterglows of N ₂ RF and UHF plasmas. <i>Current Applied Physics</i> , 2017, 17, 945-950.	1.1	10
18	Low-Temperature Desorption of N ₂ O from NO on Rutile TiO ₂ (110)-1 Å ⁻¹ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 9544-9550.	1.5	8

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19	Comparison of the Active Species in the RF and Microwave Flowing Discharges of N ₂ and Ar+20%N ₂ . Plasma Chemistry and Plasma Processing, 2016, 36, 1559-1570.	1.1	8
20	The role of active species in the N ₂ and N ₂ -H ₂ RF afterglows on selective surface nitriding of ALD-grown TiO ₂ films. Surface and Coatings Technology, 2017, 324, 243-248.	2.2	7
21	Engineering defects and photocatalytic activity of TiO ₂ nanoparticles by thermal treatments in NH ₃ and subsequent surface chemical etchings. Physical Chemistry Chemical Physics, 2017, 19, 24049-24058.	1.3	7
22	Copper-Catalyzed Oxidative Cleavage of the C=C Bonds of β -Alkoxy Alcohols and β -1 Compounds. ACS Omega, 2020, 5, 31684-31691.	1.6	7
23	Ammonia Formation from NO Reaction with Surface Hydroxyls on Rutile TiO ₂ (110)-1 Å ⁻¹ . Journal of Physical Chemistry C, 2015, 119, 1130-1135.	1.5	6
24	Temperature-programmed desorption study of NO reactions on rutile TiO ₂ (110)-1 Å ⁻¹ . Surface Science, 2016, 652, 148-155.	0.8	6
25	A passive mitigation strategy of impurity deposition on the first mirrors using duct with baffles: A case study at a port of KSTAR with in-situ deposition monitoring. Fusion Engineering and Design, 2018, 129, 269-276.	1.0	6
26	Control of selectivity in methane conversion reactions in RF plasma: the influence of reaction conditions. Research on Chemical Intermediates, 2018, 44, 3761-3771.	1.3	6
27	A study on selective surface nitridation of TiO ₂ nanocrystals in the afterglows of N ₂ and N ₂ -O ₂ microwave plasmas. Applied Surface Science, 2018, 432, 163-169.	3.1	5
28	A spontaneous change in the oxidation states of Pd/WO ₃ toward an active phase during catalytic cycles of CO oxidation. Surface Science, 2017, 665, 43-50.	0.8	4
29	The role of hydrogen in the nitriding of anatase TiO ₂ films in the N ₂ -H ₂ microwave afterglows. Surface and Coatings Technology, 2019, 364, 341-346.	2.2	4
30	Iridium(NHC)-Catalyzed Sustainable Transfer Hydrogenation of CO ₂ and Inorganic Carbonates. Catalysts, 2021, 11, 695.	1.6	4
31	WS ₂ /p-Si-based photocathodes with high activity originated from the unique vertical geometry of the 2D WS ₂ nanoplatelets. FlatChem, 2022, 33, 100361.	2.8	4
32	Suppression of Ag deposition by Ar gas in mtorr range and its implication to mitigation of impurity deposition on first mirrors. Current Applied Physics, 2015, 15, 1615-1619.	1.1	3
33	Experimental evaluation of the gas-phase collision cross-section of effusive Au beam with noble gases: The effect of size and flux. Current Applied Physics, 2014, 14, 543-546.	1.1	2
34	Enhanced photoactivity of stable colloidal TiO ₂ nanoparticles prepared in water by nanosecond infrared laser pulses. Korean Journal of Chemical Engineering, 2017, 34, 1822-1826.	1.2	2
35	Optoelectronics: Growth of Large-Area SnS Films with Oriented 2D SnS Layers for Energy-Efficient Broadband Optoelectronics (Adv. Funct. Mater. 40/2018). Advanced Functional Materials, 2018, 28, 1870289.	7.8	2
36	Evidences for Different Reaction Sites for Dehydrogenation and Dehydration of Ethanol over Vanadia Supported on Titania. Bulletin of the Korean Chemical Society, 2019, 40, 489-495.	1.0	2

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37	Densities of Active species in N ₂ /H ₂ RF and HF afterglows: application to surface nitriding of TiO ₂ nanocrystals. EPJ Applied Physics, 2017, 80, 10801.	0.3	1
38	Controlling N and C-atom densities in N ₂ /H ₂ and N ₂ /CH ₄ microwave afterglows for selective TiO ₂ surface nitriding. Applied Surface Science, 2021, 540, 148348.	3.1	1
39	Effect of the Plasma Gas Type on the Surface Characteristics of 3Y-TZP Ceramic. International Journal of Molecular Sciences, 2022, 23, 3007.	1.8	1