# Yu-Kwon Kim

List of Publications by Year
in descending order



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|---|---|---|---|
| 39 papers | 591 citations | 687220 13 h-index | 642610 23 g-index |
| 41 all docs | 41 docs citations | 41 times ranked | 913 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | WS2/p-Si-based photocathodes with high activity originated from the unique vertical geometry of the 2D WS2 nanoplatelets. FlatChem, 2022, 33, 100361. | 2.8 | 4 |
| 3 | Controlling N and C-atom densities in N2/H2 and N2/CH4 microwave afterglows for selective TiO2 surface nitriding. Applied Surface Science, 2021, 540, 148348. | 3.1 | 1 |
| 4 | Iridium(NHC)-Catalyzed Sustainable Transfer Hydrogenation of CO2 and Inorganic Carbonates. Catalysts, 2021, 11, 695. | 1.6 | 4 |
| 5 | Ir(NHC)â€Catalyzed Synthesis of Î²â€Alkylated Alcohols via Borrowing Hydrogen Strategy: Influence of Bimetallic Structure. Advanced Synthesis and Catalysis, 2021, 363, 3090-3097. | 2.1 | 13 |
| 6 | 2D layer-embedded transparent photovoltaics. Nano Energy, 2020, 68, 104328. | 8.2 | 34 |
| 7 | Highly Efficient Iridiumâ€Catalyzed Production of Hydrogen and Lactate from Glycerol: Rapid Hydrogen Evolution by Bimetallic Iridium Catalysts. European Journal of Inorganic Chemistry, 2020, 2020, 4064-4068. | 1.0 | 13 |
| 8 | Copper-Catalyzed Oxidative Cleavage of the Câ€“C Bonds of Î²-Alkoxy Alcohols and Î²-1 Compounds. ACS Omega, 2020, 5, 31684-31691. | 1.6 | 7 |
| 9 | 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 |
| 10 | The role of hydrogen in the nitriding of anatase TiO2 films in the N2-H2 microwave afterglows. Surface and Coatings Technology, 2019, 364, 341-346. | 2.2 | 4 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Growth of Largeâ€Area SnS Films with Oriented 2D SnS Layers for Energyâ€Efficient Broadband Optoelectronics. Advanced Functional Materials, 2018, 28, 1804737. | 7.8 | 42 |
| 15 | 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 |
| 16 | Enhanced photoactivity of stable colloidal TiO2 nanoparticles prepared in water by nanosecond infrared laser pulses. Korean Journal of Chemical Engineering, 2017, 34, 1822-1826. | 1.2 | 2 |
| 17 | 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 |
| 18 | Discharge source-dependent variation in the densities of active species in the flowing afterglows of N 2 RF and UHF plasmas. Current Applied Physics, 2017, 17, 945-950. | 1.1 | 10 |

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|---|---|---|---|
| 19 | Observation of temperature-dependent kinetics for catalytic CO oxidation over TiO2-supported Pt catalysts. Chemical Physics Letters, 2017, 685, 282-287. | 1.2 | 21 |
| 20 | A spontaneous change in the oxidation states of Pd/WO3 toward an active phase during catalytic cycles of CO oxidation. Surface Science, 2017, 665, 43-50. | 0.8 | 4 |
| 21 | Engineering defects and photocatalytic activity of TiO<sub>2</sub> nanoparticles by thermal treatments in NH<sub>3</sub> and subsequent surface chemical etchings. Physical Chemistry Chemical Physics, 2017, 19, 24049-24058. | 1.3 | 7 |
| 22 | Photocurrent Enhancement by a Rapid Thermal Treatment of Nanodisk-Shaped SnS Photocathodes. Journal of Physical Chemistry Letters, 2017, 8, 6099-6105. | 2.1 | 33 |
| 23 | Facile Formation of Nanodiskâ€Shaped Orthorhombic SnS Layers from SnS<sub>2</sub> Particles for Photoelectrocatalytic Hydrogen Production. ChemNanoMat, 2017, 3, 591-600. | 1.5 | 15 |
| 24 | Densities of Active species in N2/H2 RF and HF afterglows: application to surface nitriding of TiO2 nanocrystals. EPJ Applied Physics, 2017, 80, 10801. | 0.3 | 1 |
| 25 | Copperâ€Catalyzed Aerobic Formation of Unstable Sulfinyl Radicals for the Synthesis of Sulfinates and Thiosulfonates. Advanced Synthesis and Catalysis, 2016, 358, 56-61. | 2.1 | 78 |
| 26 | Comparison of the Active Species in the RF and Microwave Flowing Discharges of N2 and Arâ€“20Â%N2. Plasma Chemistry and Plasma Processing, 2016, 36, 1559-1570. | 1.1 | 8 |
| 27 | Temperature-programmed desorption study of NO reactions on rutile TiO2(110)-1 Ã— 1. Surface Science, 2016, 652, 148-155. | 0.8 | 6 |
| 28 | Dominant Influence of the Surface on the Photoactivity of Shape-Controlled Anatase TiO<sub>2</sub> Nanocrystals. ACS Catalysis, 2015, 5, 3316-3322. | 5.5 | 35 |
| 29 | Quantitative evaluation of the densities of active species of N2 in the afterglow of Ar-embedded N2 RF plasma. Current Applied Physics, 2015, 15, 1453-1462. | 1.1 | 11 |
| 30 | 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 |
| 31 | Ammonia Formation from NO Reaction with Surface Hydroxyls on Rutile TiO<sub>2</sub>(110)-1 Ã— 1. Journal of Physical Chemistry C, 2015, 119, 1130-1135. | 1.5 | 6 |
| 32 | Experimental evaluation of the gas-phase collision cross-section ofÂeffusive Au beam with noble gases: The effect of size and flux. Current Applied Physics, 2014, 14, 543-546. | 1.1 | 2 |
| 33 | Low-Temperature Desorption of N<sub>2</sub>O from NO on Rutile TiO<sub>2</sub>(110)-1 Ã— 1. Journal of Physical Chemistry C, 2014, 118, 9544-9550. | 1.5 | 8 |
| 34 | Unexpected Nondissociative Binding of N<sub>2</sub>O on Oxygen Vacancies on a Rutile TiO<sub>2</sub>(110)-1Ã—1. Journal of Physical Chemistry C, 2012, 116, 1145-1150. | 1.5 | 15 |
| 35 | Alcohol Dehydration on Monooxo Wâ•O and Dioxo Oâ•Wâ•O Species. Journal of Physical Chemistry Letters, 2012, 3, 2168-2172. | 2.1 | 18 |
| 36 | Photoemission Study of N-Doped TiO2(110) with NH3. Journal of Physical Chemistry C, 2011, 115, 18618-18624. | 1.5 | 25 |

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|---|---|---|---|
| 37 | Photoemission study on the adsorption of ethanol on clean and oxidized rutile TiO2(110)-1 Ã— 1 surfaces. Surface Science, 2011, 605, 2082-2086. | 0.8 | 19 |
| 38 | Alcohol Chemistry on Rutile TiO<sub>2</sub>(110):â€‰ The Influence of Alkyl Substituents on Reactivity and Selectivity. Journal of Physical Chemistry C, 2007, 111, 18236-18242. | 1.5 | 71 |
| 39 | Nitrogen bonding structure in ultrathin silicon oxynitride films on Si(100) prepared by plasma nitridation. Physical Review B, 2004, 70, . | 1.1 | 42 |