Junie JhonÂ M Vequizo

List of Publications by Year
in descending order

58 papers	2,658 citations	185998 28 h-index	189595 50 g-index
59 all docs	59 docs citations	59 times ranked	2578 citing authors

#	Article	IF	Citations
1	Influences of pulverization and annealing treatment on the photocatalytic activity of BiVO₄ for oxygen evolution. Sustainable Energy and Fuels, 2022, 6, 1698-1707.	2.5	3
2	Enhanced Overall Water Splitting by a Zirconiumâ€Doped TaONâ€Based Photocatalyst. Angewandte Chemie - International Edition, 2022, 61, e202116573.	7.2	36
3	Enhanced Overall Water Splitting by a Zirconiumâ€Doped TaONâ€Based Photocatalyst. Angewandte Chemie, 2022, 134, .	1.6	2
4	Overall photosynthesis of H2O2 by an inorganic semiconductor. Nature Communications, 2022, 13, 1034.	5.8	105
5	Coreâ€“Shell Double Doping of Zn and Ca on Î²-Ga₂O₃ Photocatalysts for Remarkable Water Splitting. ACS Catalysis, 2021, 11, 1911-1919.	5.5	28
6	A Na-containing Pt cocatalyst for efficient visible-light-induced hydrogen evolution on BaTaO₂N. Journal of Materials Chemistry A, 2021, 9, 13851-13854.	5.2	13
7	Sequential cocatalyst decoration on BaTaO2N towards highly-active Z-scheme water splitting. Nature Communications, 2021, 12, 1005.	5.8	124
8	Simultaneously Tuning the Defects and Surface Properties of Ta₃N₅ Nanoparticles by Mgâ€“Zr Codoping for Significantly Accelerated Photocatalytic H₂ Evolution. Journal of the American Chemical Society, 2021, 143, 10059-10064.	6.6	62
9	Surface Modifications of (ZnSe)_{0.5}(CuGa_{2.5}Se_{4.25})_{0.5} to Promote Photocatalytic Z-Scheme Overall Water Splitting. Journal of the American Chemical Society, 2021, 143, 10633-10641.	6.6	88
10	Modified SILAR Grown ZnO Films on pâ€Si(100) with Enhanced Charge Separation for UV Light Sensing Application. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100363.	0.8	1
11	Cocatalyst engineering of a narrow bandgap Ga-La₅Ti₂Cu_{0.9}Ag_{0.1}O₇S₅ photocatalyst towards effectively enhanced water splitting. Journal of Materials Chemistry A, 2021, 9, 27485-27492.	5.2	16
12	How g-C₃N₄ Works and Is Different from TiO₂ as an Environmental Photocatalyst: Mechanistic View. Environmental Science & Technology, 2020, 54, 497-506.	4.6	76
13	Identification of Individual Electron- and Hole-Transfer Kinetics at CoO_x/BiVO₄/SnO₂ Double Heterojunctions. ACS Applied Energy Materials, 2020, 3, 1207-1214.	2.5	22
14	Heteroatom Dopants Promote Twoâ€Electron O₂ Reduction for Photocatalytic Production of H₂O₂ on Polymeric Carbon Nitride. Angewandte Chemie, 2020, 132, 16343-16351.	1.6	59
15	Heteroatom Dopants Promote Twoâ€Electron O₂ Reduction for Photocatalytic Production of H₂O₂ on Polymeric Carbon Nitride. Angewandte Chemie - International Edition, 2020, 59, 16209-16217.	7.2	270
16	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. Chemical Science, 2020, 11, 6436-6441.	3.7	21
17	Enhanced water splitting through two-step photoexcitation by sunlight using tantalum/nitrogen-codoped rutile titania as a water oxidation photocatalyst. Sustainable Energy and Fuels, 2019, 3, 2337-2346.	2.5	14
18	Fe/Ru Oxide as a Versatile and Effective Cocatalyst for Boosting Z-Scheme Water-Splitting: Suppressing Undesirable Backward Electron Transfer. ACS Applied Materials & Interfaces, 2019, 11, 45606-45611.	4.0	11

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19	Sodium titanium oxide bronze nanoparticles synthesized via concurrent reduction and Na⁺-doping into TiO₂(B). Nanoscale, 2019, 11, 1442-1450.	2.8	8
20	Clear and transparent nanocrystals for infrared-responsive carrier transfer. Nature Communications, 2019, 10, 406.	5.8	33
21	Oxygenâ€Doped Ta₃N₅ Nanoparticles for Enhanced Zâ€Scheme Carbon Dioxide Reduction with a Binuclear Ruthenium(II) Complex under Visible Light. ChemPhotoChem, 2019, 3, 1027-1033.	1.5	10
22	Construction of Spatial Charge Separation Facets on BaTaO₂N Crystals by Flux Growth Approach for Visible-Light-Driven H₂ Production. ACS Applied Materials & Interfaces, 2019, 11, 22264-22271.	4.0	51
23	Effect of CuFe2O4 ferrite on photocatalysis and carrier dynamics of electrospun Î±-Fe2O3 nanofibers by time-resolved transient absorption spectroscopy. Ceramics International, 2019, 45, 15676-15680.	2.3	12
24	Enhanced Visible Light Response of TiO₂ Codoped with Cr and Ta Photocatalysts by Electron Doping. ACS Applied Energy Materials, 2019, 2, 3274-3282.	2.5	20
25	Improvement of photocatalytic activity under visible-light irradiation by heterojunction of Cu ion loaded WO3 and Cu ion loaded N-TiO2. Applied Catalysis B: Environmental, 2019, 248, 249-254.	10.8	27
26	Crucial impact of reduction on the photocarrier dynamics of SrTiO₃ powders studied by transient absorption spectroscopy. Journal of Materials Chemistry A, 2019, 7, 26139-26146.	5.2	21
27	Curious behaviors of photogenerated electrons and holes at the defects on anatase, rutile, and brookite TiO2 powders: A review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 40, 234-243.	5.6	113
28	Oxygen induced enhancement of NIR emission in brookite TiO₂powders: comparison with rutile and anatase TiO₂powders. Physical Chemistry Chemical Physics, 2018, 20, 3241-3248.	1.3	28
29	Role of CoOx cocatalyst on Ta3N5 photocatalysts studied by transient visible to mid-infrared absorption spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 315-319.	2.0	29
30	Fabrication of robust TiO2 thin films by atomized spray pyrolysis deposition for photoelectrochemical water oxidation. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 320-326.	2.0	17
31	Expansion of the photoresponse window of a BiVO₄ photocatalyst by doping with chromium(<scp>vi</scp>). RSC Advances, 2018, 8, 38140-38145.	1.7	13
32	Copolymerization Approach to Improving Ru(II)-Complex/C₃N₄ Hybrid Photocatalysts for Visible-Light CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2018, 6, 15333-15340.	3.2	40
33	Effects of Interfacial Electron Transfer in Metal Complexâ€“Semiconductor Hybrid Photocatalysts on Z-Scheme CO₂ Reduction under Visible Light. ACS Catalysis, 2018, 8, 9744-9754.	5.5	60
34	Nitrogen/fluorine-codoped rutile titania as a stable oxygen-evolution photocatalyst for solar-driven Z-scheme water splitting. Sustainable Energy and Fuels, 2018, 2, 2025-2035.	2.5	36
35	Binary flux-promoted formation of trigonal ZnIn₂S₄ layered crystals using ZnS-containing industrial waste and their photocatalytic performance for H₂ production. Green Chemistry, 2018, 20, 3845-3856.	4.6	38
36	Enhanced photocatalytic NO decomposition of visible-light responsive F-TiO2/(N,C)-TiO2 by charge transfer between F-TiO2 and (N,C)-TiO2 through their doping levels. Applied Catalysis B: Environmental, 2018, 238, 358-364.	10.8	60

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37	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie, 2018, 130, 8286-8290.	1.6	17
38	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie - International Edition, 2018, 57, 8154-8158.	7.2	66
39	Near infrared light induced plasmonic hot hole transfer at a nano-heterointerface. Nature Communications, 2018, 9, 2314.	5.8	103
40	Homogeneous Electron Doping into Nonstoichiometric Strontium Titanate Improves Its Photocatalytic Activity for Hydrogen and Oxygen Evolution. ACS Catalysis, 2018, 8, 7190-7200.	5.5	34
41	Solar-driven Z-scheme water splitting using tantalum/nitrogen co-doped rutile titania nanorod as an oxygen evolution photocatalyst. Journal of Materials Chemistry A, 2017, 5, 11710-11719.	5.2	101
42	Trapping-Induced Enhancement of Photocatalytic Activity on Brookite TiO₂ Powders: Comparison with Anatase and Rutile TiO₂ Powders. ACS Catalysis, 2017, 7, 2644-2651.	5.5	191
43	Elucidating the impact of A-site cation change on photocatalytic H₂ and O₂ evolution activities of perovskite-type LnTaON₂ (Ln = La and Pr). Physical Chemistry Chemical Physics, 2017, 19, 22210-22220.	1.3	44
44	Enhancement of photoelectrochemical activity of SnS thin-film photoelectrodes using TiO2, Nb2O5, and Ta2O5metal oxide layers. Applied Physics Express, 2016, 9, 067101.	1.1	18
45	The contrasting effect of the Ta/Nb ratio in (111)-layered B-site deficient hexagonal perovskite Ba₅Nb_{4â^'x}Ta_xO₁₅ crystals on visible-light-induced photocatalytic water oxidation activity of their oxynitride derivatives. Dalton Transactions, 2016, 45, 12559-12568.	1.6	24
46	KCl flux-induced growth of isometric crystals of cadmium-containing early transition-metal (Ti 4+ ,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 atmosphere for water splitting application. Applied Catalysis B: Environmental, 2016, 182, 626-635.	10.8	30
47	Behavior and Energy State of Photogenerated Charge Carriers in Single-Crystalline and Polycrystalline Powder SrTiO₃ Studied by Time-Resolved Absorption Spectroscopy in the Visible to Mid-Infrared Region. Journal of Physical Chemistry C, 2015, 119, 1880-1885.	1.5	86
48	NH₃-Assisted Flux Growth of Cube-like BaTaO₂N Submicron Crystals in a Completely Ionized Nonaqueous High-Temperature Solution and Their Water Splitting Activity. Crystal Growth and Design, 2015, 15, 4663-4671.	1.4	95
49	NH₃-Assisted Flux-Mediated Direct Growth of LaTiO₂N Crystallites for Visible-Light-Induced Water Splitting. Journal of Physical Chemistry C, 2015, 119, 15896-15904.	1.5	55
50	Distinctive Behavior of Photogenerated Electrons and Holes in Anatase and Rutile TiO₂ Powders. Journal of Physical Chemistry C, 2015, 119, 24538-24545.	1.5	156
51	Fabrication of Cu₂O/Î³-FeOOH heterojunction solar cells using electrodeposition. Applied Physics Express, 2014, 7, 045501.	1.1	9
52	Annealing Effect of the Cu_xO Thin Films Prepared by Drop Chemical Technique. Transactions of the Materials Research Society of Japan, 2014, 39, 109-112.	0.2	1
53	Electrodeposition and Characterization of Î³-FeOOH Thin Films from Oxygen-Bubbled Aqueous Iron Sulfate Solutions. Applied Physics Express, 2013, 6, 125501.	1.1	12
54	Electrodeposition of Gaâ€“O Thin Films from Aqueous Gallium Sulfate Solutions. Japanese Journal of Applied Physics, 2013, 52, 075503.	0.8	3

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55	An equation of average lifetime of the minority carriers in semiconductors from photo-electrochemical measurement. Transactions of the Materials Research Society of Japan, 2013, 38, 385-388.	0.2	1
56	Fabrication of Electrodeposited SnS/SnO₂ Heterojunction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NC38.	0.8	16
57	Fabrication of Electrodeposited SnS/SnO₂Heterojunction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NC38.	0.8	10
58	Electrodeposition of SnO₂ Thin Films from Aqueous Tin Sulfate Solutions. Japanese Journal of Applied Physics, 2010, 49, 125502.	0.8	16