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	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
2	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
3	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
4	Sequential cocatalyst decoration on BaTaO2N towards highly-active Z-scheme water splitting. Nature Communications, 2021, 12, 1005.	5.8	124
5	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
6	Overall photosynthesis of H2O2 by an inorganic semiconductor. Nature Communications, 2022, 13, 1034.	5.8	105
7	Near infrared light induced plasmonic hot hole transfer at a nano-heterointerface. Nature Communications, 2018, 9, 2314.	5.8	103
8	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
9	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
10	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
11	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
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	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie - International Edition, 2018, 57, 8154-8158.	7.2	66
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	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
24	Enhanced Overall Water Splitting by a Zirconiumâ€Ðoped TaONâ€Ðased Photocatalyst. Angewandte Chemie - International Edition, 2022, 61, e202116573.	7.2	36
25	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
26	Clear and transparent nanocrystals for infrared-responsive carrier transfer. Nature Communications, 2019, 10, 406.	5.8	33
27	KCl flux-induced growth of isometric crystals of cadmium-containing early transition-metal (Ti 4+ ,) Tj ETQq1 1 0.784314 rgBT /Overlo atmosphere for water splitting application. Applied Catalysis B: Environmental, 2016, 182, 626-635.	10.8	30
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. Chemical Science, 2020, 11, 6436-6441.	3.7	21
36	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

#	Article	IF	Citations
37	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
38	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
39	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie, 2018, 130, 8286-8290.	1.6	17
40	Electrodeposition of SnO₂ Thin Films from Aqueous Tin Sulfate Solutions. Japanese Journal of Applied Physics, 2010, 49, 125502.	0.8	16
41	Fabrication of Electrodeposited SnS/SnO₂ Heterojunction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NC38.	0.8	16
42	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
43	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
44	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
45	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
46	Electrodeposition and Characterization of Î³-FeOOH Thin Films from Oxygen-Bubbled Aqueous Iron Sulfate Solutions. Applied Physics Express, 2013, 6, 125501.	1.1	12
47	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
48	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
49	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
50	Fabrication of Electrodeposited SnS/SnO₂Heterojunction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NC38.	0.8	10
51	Fabrication of Cu₂O/Î³-FeOOH heterojunction solar cells using electrodeposition. Applied Physics Express, 2014, 7, 045501.	1.1	9
52	Sodium titanium oxide bronze nanoparticles synthesized via concurrent reduction and Na⁺-doping into TiO₂(B). Nanoscale, 2019, 11, 1442-1450.	2.8	8
53	Electrodeposition of Gaâ€“O Thin Films from Aqueous Gallium Sulfate Solutions. Japanese Journal of Applied Physics, 2013, 52, 075503.	0.8	3
54	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

#	Article	IF	Citations
55	Enhanced Overall Water Splitting by a Zirconiumâ€Doped TaONâ€Based Photocatalyst. Angewandte Chemie, 2022, 134, .	1.6	2
56	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
57	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
58	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