

Andreas Kafizas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

3,857

citations

38

h-index

60

g-index

98

ext. papers

4,569

ext. citations

9.9

avg, IF

5.71

L-index

#	Paper	IF	Citations
86	CO ₂ capture and photocatalytic reduction using bifunctional TiO ₂ /MOF nanocomposites under UV-vis irradiation. <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 131-140	21.8	204
85	Ultrafast charge carrier recombination and trapping in hematite photoanodes under applied bias. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9854-7	16.4	204
84	Superhydrophobic photocatalytic surfaces through direct incorporation of titania nanoparticles into a polymer matrix by aerosol assisted chemical vapor deposition. <i>Advanced Materials</i> , 2012 , 24, 3505-8	24	146
83	Photoinduced Absorption Spectroscopy of CoPi on BiVO ₄ : The Function of CoPi during Water Oxidation. <i>Advanced Functional Materials</i> , 2016 , 26, 4951-4960	15.6	135
82	Transient Absorption Spectroscopy of Anatase and Rutile: The Impact of Morphology and Phase on Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10439-10447	3.8	107
81	Efficient suppression of back electron/hole recombination in cobalt phosphate surface-modified undoped bismuth vanadate photoanodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20649-20657	13	101
80	Where Do Photogenerated Holes Go in Anatase:Rutile TiO ₂ ? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 715-23	2.8	101
79	White light induced photocatalytic activity of sulfur-doped TiO ₂ thin films and their potential for antibacterial application. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8747		99
78	Titanium dioxide and composite metal/metal oxide titania thin films on glass: A comparative study of photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 204, 183-190	4.7	98
77	Multihole water oxidation catalysis on hematite photoanodes revealed by operando spectroelectrochemistry and DFT. <i>Nature Chemistry</i> , 2020 , 12, 82-89	17.6	93
76	Multifunctional P-Doped TiO ₂ Films: A New Approach to Self-Cleaning, Transparent Conducting Oxide Materials. <i>Chemistry of Materials</i> , 2015 , 27, 3234-3242	9.6	92
75	Titanium dioxide/carbon nitride nanosheet nanocomposites for gas phase CO ₂ photoreduction under UV-visible irradiation. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 369-378	21.8	86
74	Evaluation of Surface State Mediated Charge Recombination in Anatase and Rutile TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3742-3746	6.4	85
73	Impact of Oxygen Vacancy Occupancy on Charge Carrier Dynamics in BiVO ₄ Photoanodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18791-18798	16.4	85
72	CVD and precursor chemistry of transition metal nitrides. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 2073-2119	23.2	83
71	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO ₂ Photoanode: A Rate Law Analysis. <i>ACS Catalysis</i> , 2017 , 7, 4896-4903	13.1	76
70	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study. <i>Advanced Functional Materials</i> , 2017 , 27, 1605413	15.6	76

69	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11537-11543	16.4	76
68	Water Oxidation and Electron Extraction Kinetics in Nanostructured Tungsten Trioxide Photoanodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16168-16177	16.4	73
67	Nanoparticulate silver coated-titania thin films: Photo-oxidative destruction of stearic acid under different light sources and antimicrobial effects under hospital lighting conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 220, 113-123	4.7	64
66	Antibacterial Activity of Light-Activated Silicone Containing Methylene Blue and Gold Nanoparticles of Different Sizes. <i>Journal of Cluster Science</i> , 2010 , 21, 427-438	3	59
65	Optimizing the Activity of Nanoneedle Structured WO ₃ Photoanodes for Solar Water Splitting: Direct Synthesis via Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5983-5993	3.8	57
64	Determining the role of oxygen vacancies in the photoelectrocatalytic performance of WO for water oxidation. <i>Chemical Science</i> , 2020 , 11, 2907-2914	9.4	57
63	Effect of oxygen deficiency on the excited state kinetics of WO and implications for photocatalysis. <i>Chemical Science</i> , 2019 , 10, 5667-5677	9.4	56
62	Rate Law Analysis of Water Oxidation and Hole Scavenging on a BiVO ₄ Photoanode. <i>ACS Energy Letters</i> , 2016 , 1, 618-623	20.1	54
61	The combinatorial atmospheric pressure chemical vapour deposition (cAPCVD) of a grading substitutional/interstitial N-doped anatase TiO ₂ thin-film; UVA and visible light photocatalytic activities. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 216, 156-166	4.7	53
60	Visible light photocatalysts: N-doped TiO ₂ by sol-gel, enhanced with surface bound silver nanoparticle islands. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11854		52
59	Combinatorial atmospheric pressure chemical vapor deposition (cAPCVD): a route to functional property optimization. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20458-67	16.4	51
58	Aerosol assisted chemical vapour deposition of hydrophobic TiO ₂ /SnO ₂ composite film with novel microstructure and enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6271	13	50
57	Combinatorial atmospheric pressure chemical vapour deposition (cAPCVD) of niobium doped anatase; effect of niobium on the conductivity and photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8336		50
56	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO Thin Films: Theory and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15348-15361	9.5	49
55	Combinatorial atmospheric pressure chemical vapor deposition of graded TiO ₂ /VO ₂ mixed-phase composites and their dual functional property as self-cleaning and photochromic window coatings. <i>ACS Combinatorial Science</i> , 2013 , 15, 309-19	3.9	47
54	Combinatorial atmospheric pressure chemical vapour deposition (cAPCVD) of a mixed vanadium oxide and vanadium oxynitride thin film. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1399		45
53	The combinatorial atmospheric pressure chemical vapour deposition (cAPCVD) of a grading N-doped mixed phase titania thin film. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2157		44
52	Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO ₂ Thin Films. <i>Chemistry of Materials</i> , 2018 , 30, 1353-1361	9.6	43

51	The Effect of Materials Architecture in TiO ₂ /MOF Composites on CO Photoreduction and Charge Transfer. <i>Small</i> , 2019 , 15, e1805473	11	42
50	Does a photocatalytic synergy in an anatase-rutile TiO ₂ composite thin-film exist?. <i>Chemistry - A European Journal</i> , 2012 , 18, 13048-58	4.8	41
49	WO ₃ /BiVO ₄ : impact of charge separation at the timescale of water oxidation. <i>Chemical Science</i> , 2019 , 10, 2643-2652	9.4	39
48	Inorganic thin-film combinatorial studies for rapidly optimising functional properties. <i>Chemical Society Reviews</i> , 2012 , 41, 738-81	58.5	38
47	Simple method for the rapid simultaneous screening of photocatalytic activity over multiple positions of self-cleaning films. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8367-75	3.6	38
46	High efficiency water splitting photoanodes composed of nano-structured anatase-rutile TiO ₂ heterojunctions by pulsed-pressure MOCVD. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 904-911	21.8	38
45	Comparing photoelectrochemical water oxidation, recombination kinetics and charge trapping in the three polymorphs of TiO ₂ . <i>Scientific Reports</i> , 2017 , 7, 2938	4.9	37
44	The extended time evolution size decrease of gold nanoparticles formed by the Turkevich method. <i>New Journal of Chemistry</i> , 2010 , 34, 1401	3.6	37
43	The relationship between photocatalytic activity and photochromic state of nanoparticulate silver surface loaded titanium dioxide thin-films. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13827-38	3.6	35
42	Aerosol-assisted chemical vapor deposition of V ₂ O ₅ cathodes with high rate capabilities for magnesium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 384, 355-359	8.9	34
41	The effect of initiation method on the size, monodispersity and shape of gold nanoparticles formed by the Turkevich method. <i>New Journal of Chemistry</i> , 2010 , 34, 2906	3.6	34
40	Combinatorial Atmospheric Pressure Chemical Vapor Deposition of F:TiO ₂ ; the Relationship between Photocatalysis and Transparent Conducting Oxide Properties. <i>Advanced Functional Materials</i> , 2014 , 24, 1758-1771	15.6	33
39	Explaining the Enhanced Photoelectrochemical Behavior of Highly Ordered TiO ₂ Nanotube Arrays: Anatase/Rutile Phase Junction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5274-5282	8.3	32
38	CVD Production of Doped Titanium Dioxide Thin Films. <i>Chemical Vapor Deposition</i> , 2012 , 18, 89-101		31
37	Electron transfer dynamics in fuel producing photosystems. <i>Current Opinion in Electrochemistry</i> , 2017 , 2, 136-143	7.2	30
36	Photocatalytic activity of needle-like TiO ₂ /WO ₃ thin films prepared by chemical vapour deposition. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 239, 60-64	4.7	28
35	Combinatorial aerosol assisted chemical vapour deposition of a photocatalytic mixed SnO ₂ /TiO ₂ thin film. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5108-5116	13	27
34	Photobactericidal activity activated by thiolated gold nanoclusters at low flux levels of white light. <i>Nature Communications</i> , 2020 , 11, 1207	17.4	26

33	Charge Separation, Band-Bending, and Recombination in WO Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5395-5401	6.4	26
32	TiO ₂ -based transparent conducting oxides; the search for optimum electrical conductivity using a combinatorial approach. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6335	7.1	26
31	The room temperature formation of gold nanoparticles from the reaction of cyclohexanone and auric acid; a transition from dendritic particles to compact shapes and nanoplates. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7351	13	25
30	An investigation into the effect of thickness of titanium dioxide and gold/silver nanoparticle titanium dioxide composite thin-films on photocatalytic activity and photo-induced oxygen production in a sacrificial system. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6854		24
29	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. <i>Nature Materials</i> , 2021 , 20, 511-517	27	24
28	A comprehensive aerosol spray method for the rapid photocatalytic grid area analysis of semiconductor photocatalyst thin films. <i>Analytica Chimica Acta</i> , 2010 , 663, 69-76	6.6	23
27	The use of combinatorial aerosol-assisted chemical vapour deposition for the formation of gallium-indium-oxide thin films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12644		21
26	A Review of Inorganic Photoelectrode Developments and Reactor Scale-Up Challenges for Solar Hydrogen Production. <i>Advanced Energy Materials</i> , 2021 , 11, 2003286	21.8	20
25	Computational and Experimental Study of Ta ₂ O ₅ Thin Films. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 202-210	3.8	17
24	Ultra-thin Al ₂ O ₃ coatings on BiVO ₄ photoanodes: Impact on performance and charge carrier dynamics. <i>Catalysis Today</i> , 2019 , 321-322, 59-66	5.3	17
23	Correlation of Optical Properties, Electronic Structure, and Photocatalytic Activity in Nanostructured Tungsten Oxide. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700064	4.6	15
22	An EXAFS study on the photo-assisted growth of silver nanoparticles on titanium dioxide thin-films and the identification of their photochromic states. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8254-8263	3.6	15
21	Ultraviolet Radiation Induced Dopant Loss in a TiO ₂ Photocatalyst. <i>ACS Catalysis</i> , 2017 , 7, 1485-1490	13.1	13
20	Charge Carrier Dynamics in Metal Oxide Photoelectrodes for Water Oxidation. <i>Semiconductors and Semimetals</i> , 2017 , 3-46	0.6	12
19	Air purification by heterogeneous photocatalytic oxidation with multi-doped thin film titanium dioxide. <i>Thin Solid Films</i> , 2013 , 537, 131-136	2.2	12
18	Beyond band bending in the WO ₃ /BiVO ₄ heterojunction: insight from DFT and experiment. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 264-271	5.8	11
17	Combinatorial Atmospheric Pressure CVD of a Composite TiO ₂ /SnO ₂ Thin Film. <i>Chemical Vapor Deposition</i> , 2014 , 20, 69-79		11
16	Zn and N Codoped TiO Thin Films: Photocatalytic and Bactericidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10480-10489	9.5	9

15	Heterojunction FeO/ZnO Films with Enhanced Photocatalytic Properties Grown by Aerosol-Assisted Chemical Vapour Deposition. <i>Chemistry - A European Journal</i> , 2019 , 25, 11337-11345	4.8	8
14	Aerosol-Assisted Chemical Vapour Deposition of Transparent Zinc Gallate Films. <i>ChemPlusChem</i> , 2014 , 79, 1024-1029	2.8	8
13	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO/TiO System as an Archetypical Model. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9781-9793	9.5	8
12	Combinatorial CVD: New Oxynitride Photocatalysts. <i>ECS Transactions</i> , 2009 , 25, 139-154	1	7
11	Combinatorial CVD: New Oxy-nitride Photocatalysts. <i>ECS Transactions</i> , 2009 , 25, 1239-1250	1	7
10	Deeper Understanding of Interstitial Boron-Doped Anatase Thin Films as A Multifunctional Layer Through Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 714-726	3.8	5
9	Improved accuracy in multicomponent surface complexation models using surface-sensitive analytical techniques: Adsorption of arsenic onto a TiO/FeO multifunctional sorbent. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 834-849	9.3	5
8	MOF-Based Heterojunctions: The Effect of Materials Architecture in TiO ₂ /MOF Composites on CO ₂ Photoreduction and Charge Transfer (Small 11/2019). <i>Small</i> , 2019 , 15, 1970060	11	3
7	Anisotropic Electron Transport Limits Performance of Bi ₂ WO ₆ Photoanodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18859-18867	3.8	3
6	The effect of nanoparticulate PdO co-catalysts on the faradaic and light conversion efficiency of WO photoanodes for water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1285-1291	3.6	3
5	A Hierarchical 3D TiO ₂ /Ni Nanostructure as an Efficient Hole-Extraction and Protection Layer for GaAs Photoanodes. <i>ChemSusChem</i> , 2020 , 13, 6028-6036	8.3	2
4	Photocatalysis: Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study (Adv. Funct. Mater. 18/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
3	The determination of oxidation rates and quantum yields during the photocatalytic oxidation of As(III) over TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 424, 113628	4.7	1
2	Towards High Performance Chemical Vapour Deposition VO Cathodes for Batteries Employing Aqueous Media. <i>Molecules</i> , 2020 , 25,	4.8	1
1	Color-tunable hybrid heterojunctions as semi-transparent photovoltaic windows for photoelectrochemical water splitting. <i>Cell Reports Physical Science</i> , 2021 , 2, 100676	6.1	1