

Andreas Mattsson

List of Publications by Year in descending order

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31
papers

995
citations

567281

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption and Photoinduced Decomposition of Acetone and Acetic Acid on Anatase, Brookite, and Rutile TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14121-14132.	3.1	169
2	Adsorption and Solar Light Decomposition of Acetone on Anatase TiO ₂ and Niobium Doped TiO ₂ Thin Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1210-1220.	2.6	159
3	A comparative study of the photocatalytic oxidation of propane on anatase, rutile, and mixed-phase anatase-rutile TiO ₂ nanoparticles: Role of surface intermediates. <i>Journal of Catalysis</i> , 2007, 251, 131-144.	6.2	128
4	Adsorption and photocatalytic degradation of diisopropyl fluorophosphate and dimethyl methylphosphonate over dry and wet rutile TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 184, 125-134.	3.9	50
5	Photodegradation of DMMP and CEES on zirconium doped titania nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 401-410.	20.2	49
6	Adsorption of formic acid on rutile TiO ₂ (110) revisited: An infrared reflection-absorption spectroscopy and density functional theory study. <i>Journal of Chemical Physics</i> , 2014, 140, 034705.	3.0	49
7	Synergistic TiO ₂ /VO ₂ Window Coating with Thermochromism, Enhanced Luminous Transmittance, and Photocatalytic Activity. <i>Joule</i> , 2019, 3, 2457-2471.	24.0	42
8	The Importance of Oxygen Vacancies in Nanocrystalline WO ₃ Thin Films Prepared by DC Magnetron Sputtering for Achieving High Photoelectrochemical Efficiency. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7412-7420.	3.1	35
9	Demonstrating Online Monitoring of Air Pollutant Photodegradation in a 3D Printed Gas-Phase Photocatalysis Reactor. <i>Journal of Chemical Education</i> , 2015, 92, 678-682.	2.3	34
10	Development of W-doped SiO ₂ and Nb-doped TiO ₂ solar absorber coatings for combined heat and power systems at intermediate operation temperatures. <i>Solar Energy Materials and Solar Cells</i> , 2015, 133, 180-193.	6.2	33
11	Reactive adsorption and photodegradation of soman and dimethyl methylphosphonate on TiO ₂ /nanodiamond composites. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118097.	20.2	32
12	Effect of sample preparation and humidity on the photodegradation rate of CEES on pure and Zn doped anatase TiO ₂ nanoparticles prepared by homogeneous hydrolysis. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 194-203.	20.2	27
13	Chemical warfare agent simulant DMMP reactive adsorption on TiO ₂ /graphene oxide composites prepared via titanium peroxo-complex or urea precipitation. <i>Journal of Hazardous Materials</i> , 2018, 359, 482-490.	12.4	23
14	Oxygen Diffusion and Photon-Induced Decomposition of Acetone on Zr- and Nb-Doped TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3810-3818.	3.1	18
15	Characterisation, phase stability and surface chemical properties of photocatalytic active Zr and Y co-doped anatase TiO ₂ nanoparticles. <i>Journal of Solid State Chemistry</i> , 2013, 199, 212-223.	2.9	16
16	Simulation of IRRAS Spectra for Molecules on Oxide Surfaces: CO on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2015, 119, 5403-5411.	3.1	16
17	Solar light decomposition of DFP on the surface of anatase and rutile TiO ₂ prepared by hydrothermal treatment of microemulsions. <i>Surface Science</i> , 2005, 584, 98-105.	1.9	15
18	Solar light decomposition of warfare agent simulant DMMP on TiO ₂ /graphene oxide nanocomposites. <i>Catalysis Science and Technology</i> , 2019, 9, 1816-1824.	4.1	13

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19	Infrared spectroscopy study of adsorption and photodecomposition of formic acid on reduced and defective rutile TiO ₂ (110) surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, .	2.1	12
20	Role of bismuth in nano-structured doped TiO ₂ photocatalyst prepared by environmentally benign soft synthesis. <i>Journal of Materials Science</i> , 2014, 49, 3560-3571.	3.7	11
21	Co-adsorption of oxygen and formic acid on rutile TiO ₂ (110) studied by infrared reflection-absorption spectroscopy. <i>Surface Science</i> , 2017, 663, 47-55.	1.9	10
22	A novel ATR-FTIR method for functionalised surface characterisation. <i>Surface and Interface Analysis</i> , 2008, 40, 623-626.	1.8	8
23	Ni ²⁺ /Ag Nanostructure-Modified Graphitic Carbon Nitride for Enhanced Performance of Solar-Driven Hydrogen Production from Ethanol. <i>ACS Applied Energy Materials</i> , 2020, 3, 10131-10138.	5.1	8
24	Determination of Volatile Organic Compounds in Water by Attenuated Total Reflection Infrared Spectroscopy and Diamond-Like Carbon Coated Silicon Wafers. <i>Chemosensors</i> , 2020, 8, 75.	3.6	7
25	New Cermet Coatings for Mid-temperature Applications for Solar Concentrated Combine Heat and Power System. <i>Energy Procedia</i> , 2014, 48, 242-249.	1.8	6
26	In Situ FTIR Spectroscopy Study of the Photodegradation of Acetaldehyde and azo Dye Photobleaching on Bismuth-Modified TiO ₂ . <i>Photochemistry and Photobiology</i> , 2015, 91, 48-58.	2.5	6
27	Corrosion Detection by Infrared Attenuated Total Reflection Spectroscopy via Diamond-Like Carbon-Coated Silicon Wafers and Iron-Sensitive Dyes. <i>Sensors</i> , 2019, 19, 3373.	3.8	6
28	Warfare Agents Degradation on Zirconium Doped Titania. <i>Microscopy and Microanalysis</i> , 2009, 15, 1038-1039.	0.4	5
29	Surface characteristics and electronic structure of photocatalytic reactions on TiO ₂ and doped TiO ₂ nanoparticles. , 2006, , .		4
30	Spectral Selective Solar Light Enhanced Photocatalysis: TiO ₂ /TiAlN Bilayer Films. <i>Topics in Catalysis</i> , 2018, 61, 1607-1614.	2.8	4
31	TiO ₂ /VO ₂ Bilayer Coatings for Glazing: Synergistically Enhanced Photocatalytic, Thermochromic, and Luminous Properties. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0