Nick Serpone

List of Publications by Year
in descending order

		6613	8167
362	25,961	79	148
papers	citations	h-index	g-index

368	368	368	19739
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photocatalyzed destruction of water contaminants. Environmental Science & Technology, 1991, 25, 1522-1529.	10.0	1,210
2	Is the Band Gap of Pristine TiO2Narrowed by Anion- and Cation-Doping of Titanium Dioxide in Second-Generation Photocatalysts?. Journal of Physical Chemistry B, 2006, 110, 24287-24293.	2.6	972
3	Photoassisted Degradation of Dye Pollutants. V. Self-Photosensitized Oxidative Transformation of Rhodamine B under Visible Light Irradiation in Aqueous TiO2 Dispersions. Journal of Physical Chemistry B, 1998, 102, 5845-5851.	2.6	964
4	Charge carrier trapping and recombination dynamics in small semiconductor particles. Journal of the American Chemical Society, 1985, 107, 8054-8059.	13.7	616
5	Exploiting the interparticle electron transfer process in the photocatalysed oxidation of phenol, 2-chlorophenol and pentachlorophenol: chemical evidence for electron and hole transfer between coupled semiconductors. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 85, 247-255.	3.9	614
6	Semiconductor Photocatalysis â€" Past, Present, and Future Outlook. Journal of Physical Chemistry Letters, 2012, 3, 673-677.	4.6	579
7	Photoassisted Degradation of Dye Pollutants. 3. Degradation of the Cationic Dye Rhodamine B in Aqueous Anionic Surfactant/TiO2Dispersions under Visible Light Irradiation:Â Evidence for the Need of Substrate Adsorption on TiO2Particles. Environmental Science & Technology, 1998, 32, 2394-2400.	10.0	558
8	Photooxidative N-demethylation of methylene blue in aqueous TiO2 dispersions under UV irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 140, 163-172.	3.9	546
9	Inorganic and organic UV filters: Their role and efficacy in sunscreens and suncare products. Inorganica Chimica Acta, 2007, 360, 794-802.	2.4	528
10	Chemical oxidation and DNA damage catalysed by inorganic sunscreen ingredients. FEBS Letters, 1997, 418, 87-90.	2.8	462
11	TiO2-assisted photodegradation of dye pollutants II. Adsorption and degradation kinetics of eosin in TiO2 dispersions under visible light irradiation. Applied Catalysis B: Environmental, 1998, 15, 147-156.	20.2	411
12	Spectroscopic, Photoconductivity, and Photocatalytic Studies of TiO2 Colloids: Naked and with the Lattice Doped with Cr3+, Fe3+, and V5+ Cations. Langmuir, 1994, 10, 643-652.	3.5	409
13	Role of hydroxyl radicals and trapped holes in photocatalysis. A pulse radiolysis study. The Journal of Physical Chemistry, 1991, 95, 5166-5170.	2.9	374
14	Effect of Transition Metal Ions on the TiO2-Assisted Photodegradation of Dyes under Visible Irradiation:Â A Probe for the Interfacial Electron Transfer Process and Reaction Mechanism. Journal of Physical Chemistry B, 2002, 106, 318-324.	2.6	369
15	Glossary of terms used in photocatalysis and radiation catalysis (IUPAC Recommendations 2011). Pure and Applied Chemistry, 2011, 83, 931-1014.	1.9	333
16	Relative photonic efficiencies and quantum yields in heterogeneous photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 104, 1-12.	3.9	331
17	Photodegradation of Sulforhodamine-B Dye in Platinized Titania Dispersions under Visible Light Irradiation:â€‰ Influence of Platinum as a Functional Co-catalyst. Journal of Physical Chemistry B, 2002, 106, 5022-5028.	2.6	307
18	Photosensitized Degradation of Dyes in Polyoxometalate Solutions Versus TiO2 Dispersions under Visible-Light Irradiation: Mechanistic Implications. Chemistry - A European Journal, 2004, 10, 1956-1965.	3.3	288

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19	Kinetic studies in heterogeneous photocatalysis. 2. Titania-mediated degradation of 4-chlorophenol alone and in a three-component mixture of 4-chlorophenol, 2,4-dichlorophenol, and 2,4,5-trichlorophenol in air-equilibrated aqueous media. Langmuir, 1989, 5, 250-255.	3.5	279
20	Spectroscopic and Photoluminescence Studies of a Wide Band Gap Insulating Material:Â Powdered and Colloidal ZrO2Sols. Langmuir, 1998, 14, 5011-5022.	3.5	268
21	Photoassisted Degradation of Dye Pollutants. 8. Irreversible Degradation of Alizarin Red under Visible Light Radiation in Air-Equilibrated Aqueous TiO2Dispersions. Environmental Science & Technology, 1999, 33, 2081-2087.	10.0	252
22	Photooxidation Pathway of Sulforhodamine-B. Dependence on the Adsorption Mode on TiO2 Exposed to Visible Light Radiation. Environmental Science & Technology, 2000, 34, 3982-3990.	10.0	251
23	TiO2-Assisted Photodegradation of Dyes. 9. Photooxidation of a Squarylium Cyanine Dye in Aqueous Dispersions under Visible Light Irradiation. Environmental Science & Technology, 1999, 33, 1379-1387.	10.0	247
24	Evidence for H2O2 Generation during the TiO2-Assisted Photodegradation of Dyes in Aqueous Dispersions under Visible Light Illumination. Journal of Physical Chemistry B, 1999, 103, 4862-4867.	2.6	233
25	Visible Light Absorption by Various Titanium Dioxide Specimensâ€. Journal of Physical Chemistry B, 2006, 110, 25203-25209.	2.6	219
26	Environmental Remediation by an Integrated Microwave/UV-Illumination Method. 1. Microwave-Assisted Degradation of Rhodamine-B Dye in Aqueous TiO2 Dispersions. Environmental Science & Technology, 2002, 36, 1357-1366.	10.0	216
27	Photocatalysis by Titanium Dioxide and Polyoxometalate/TiO2Cocatalysts. Intermediates and Mechanistic Study. Environmental Science & Technology, 2004, 38, 329-337.	10.0	212
28	On the Origin of the Spectral Bands in the Visible Absorption Spectra of Visible-Light-Active TiO₂ Specimens Analysis and Assignments. Journal of Physical Chemistry C, 2009, 113, 15110-15123.	3.1	210
29	Environmental Remediation by an Integrated Microwave/UV Illumination Method. V. Thermal and Nonthermal Effects of Microwave Radiation on the Photocatalyst and on the Photodegradation of Rhodamine-B under UV/Vis Radiation. Environmental Science & Technology, 2003, 37, 5813-5822.	10.0	199
30	Terminology, relative photonic efficiencies and quantum yields in heterogeneous photocatalysis. Part I: Suggested protocol. Pure and Applied Chemistry, 1999, 71, 303-320.	1.9	198
31	Dogmas and Misconceptions in Heterogeneous Photocatalysis. Some Enlightened Reflections. Journal of Physical Chemistry B, 2005, 109, 18515-18521.	2.6	189
32	Standardization protocol of process efficiencies and activation parameters in heterogeneous photocatalysis: relative photonic efficiencies Î¶r. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 94, 191-203.	3.9	184
33	Formation and Identification of Intermediates in the Visible-Light-Assisted Photodegradation of Sulforhodamine-B Dye in Aqueous TiO2Dispersion. Environmental Science & Technology, 2002, 36, 3604-3611.	10.0	184
34	Photoluminescence and Transient Spectroscopy of Free Base Porphyrin Aggregates. Journal of Physical Chemistry B, 1999, 103, 761-769.	2.6	179
35	Factors affecting the efficiency of a photocatalyzed process in aqueous metal-oxide dispersions. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 133, 89-97.	3.9	170
36	Photophysics of Cyanine Dyes:Â Subnanosecond Relaxation Dynamics in Monomers, Dimers, and H- and J-Aggregates in Solution. Journal of Physical Chemistry B, 1997, 101, 2602-2610.	2.6	165

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37	Photocatalytic degradation of nonylphenol ethoxylated surfactants. Environmental Science & Technology, 1989, 23, 1380-1385.	10.0	155
38	On the Generation of Hot-Spots by Microwave Electric and Magnetic Fields and Their Impact on a Microwave-Assisted Heterogeneous Reaction in the Presence of Metallic Pd Nanoparticles on an Activated Carbon Support. Journal of Physical Chemistry C, 2011, 115, 23030-23035.	3.1	142
39	Terminology, relative photonic efficiencies and quantum yields in heterogeneous photocatalysis. Part II: Experimental determination of quantum yields. Pure and Applied Chemistry, 1999, 71, 321-335.	1.9	139
40	An in vitro systematic spectroscopic examination of the photostabilities of a random set of commercial sunscreen lotions and their chemical UVB/UVA active agents. Photochemical and Photobiological Sciences, 2002, 1, 970.	2.9	136
41	Role of microwaves in heterogeneous catalytic systems. Catalysis Science and Technology, 2014, 4, 1197.	4.1	136
42	Photodegradation of surfactants. 11. .zeta.-Potential measurements in the photocatalytic oxidation of surfactants in aqueous titania dispersions. Langmuir, 1993, 9, 1646-1650.	3.5	134
43	Suggested terms and definitions in photocatalysis and radiocatalysis. International Journal of Photoenergy, 2002, 4, 91-131.	2.5	130
44	Photocatalysis over TiO2 supported on a glass substrate. Solar Energy Materials and Solar Cells, 1986, 14, 121-127.	0.4	123
45	In vitro photochemical damage to DNA, RNA and their bases by an inorganic sunscreen agent on exposure to UVA and UVB radiation. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 111, 205-213.	3.9	122
46	Why do Hydrogen and Oxygen Yields from Semiconductor-Based Photocatalyzed Water Splitting Remain Disappointingly Low? Intrinsic and Extrinsic Factors Impacting Surface Redox Reactions. ACS Energy Letters, 2016, 1, 931-948.	17.4	119
47	Interactions between different solar UVB/UVA filters contained in commercial suncreams and consequent loss of UV protection. Photochemical and Photobiological Sciences, 2006, 5, 835.	2.9	116
48	Excited-state behavior of polypyridyl complexes of chromium(III). Journal of the American Chemical Society, 1979, 101, 2907-2916.	13.7	115
49	Photocatalytic decomposition of the sodium dodecylbenzene sulfonate surfactant in aqueous titania suspensions exposed to highly concentrated solar radiation and effects of additives. Applied Catalysis B: Environmental, 2003, 42, 13-24.	20.2	115
50	Processes of formation of NH4+ and NO3â^' ions during the photocatalyzed oxidation of N-containing compounds at the titania/water interface. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 102, 265-272.	3.9	111
51	Photodecomposition of a nonylphenol polyethoxylate surfactant in a cylindrical photoreactor with TiO2 immobilized fiberglass cloth. Applied Catalysis B: Environmental, 2002, 37, 117-129.	20.2	111
52	Hydroxyl radicals in microwave photocatalysis. Enhanced formation of OH radicals probed by ESR techniques in microwave-assisted photocatalysis in aqueous TiO2 dispersions. Chemical Physics Letters, 2003, 376, 475-480.	2.6	111
53	On the usage of turnover numbers and quantum yields in heterogeneous photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 1993, 73, 11-16.	3.9	109
54	Light-induced reduction of rhodium(III) and palladium(II) on titanium dioxide dispersions and the selective photochemical separation and recovery of gold(III), platinum(IV), and rhodium(III) in chloride media. Inorganic Chemistry, 1986, 25, 4499-4503.	4.0	108

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55	Reduction and Aggregation of Silver Ions in Aqueous Gelatin Solutions. Langmuir, 1994, 10, 3018-3022.	3.5	107
56	Can the photocatalyst TiO2 be incorporated into a wastewater treatment method? Background and prospects. Catalysis Today, 2020, 340, 334-346.	4.4	106
57	Post-irradiation effect and reductive dechlorination of chlorophenols at oxygen-free TiO2/water interfaces in the presence of prominent hole scavengers. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 136, 145-155.	3.9	104
58	Photocatalyzed Degradation of Polymers in Aqueous Semiconductor Suspensions. 3. Photooxidation of a Solid Polymer:Â TiO2-Blended Poly(vinyl chloride) Film. Environmental Science & Technology, 1998, 32, 4010-4016.	10.0	101
59	Environmental Remediation by an Integrated Microwave/UV Illumination Technique. 8. Fate of Carboxylic Acids, Aldehydes, Alkoxycarbonyl and Phenolic Substrates in a Microwave Radiation Field in the Presence of TiO2Particles under UV Irradiation. Environmental Science & Technology, 2004, 38, 2198-2208.	10.0	100
60	Photocatalytic generation of solar fuels from the reduction of H₂O and CO₂: a look at the patent literature. Physical Chemistry Chemical Physics, 2014, 16, 19790.	2.8	100
61	Advances in the photochemistry and photophysics of chromium(iii) polypyridyl complexes in fluid media. Coordination Chemistry Reviews, 1981, 39, 121-179.	18.8	99
62	Photocatalytic degradation of polychlorinated dioxins and polychlorinated biphenyls in aqueous suspensions of semiconductors irradiated with simulated solar light. Chemosphere, 1988, 17, 499-510.	8.2	99
63	The fate of organic nitrogen under photocatalytic conditions: degradation of nitrophenols and aminophenols on irradiated TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 109, 171-176.	3.9	97
64	In-liquid plasma: a novel tool in the fabrication of nanomaterials and in the treatment of wastewaters. RSC Advances, 2017, 7, 47196-47218.	3.6	97
65	Environmental remediation by an integrated microwave/UV-illumination technique. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 159, 289-300.	3.9	96
66	Photoinduced Formation of Defects and Nitrogen Stabilization of Color Centers in N-Doped Titanium Dioxide. Journal of Physical Chemistry C, 2007, 111, 11456-11462.	3.1	96
67	Photosensitization of Colloidal Titania Particles by Electron Injection from an Excited Organic Dyeâ^'Antennae Function. Journal of Physical Chemistry B, 1997, 101, 9027-9034.	2.6	95
68	Photoassisted degradation of dye pollutants in aqueous TiO2 dispersions under irradiation by visible light. Journal of Molecular Catalysis A, 1997, 120, 173-178.	4.8	95
69	Photocatalyzed mineralization of cresols in aqueous media with irradiated titania*1. Journal of Catalysis, 1991, 128, 352-365.	6.2	94
70	Environmental remediation by an integrated microwave/UV illumination method. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 162, 33-40.	3.9	93
71	Access to small size distributions of nanoparticles by microwave-assisted synthesis. Formation of Ag nanoparticles in aqueous carboxymethylcellulose solutions in batch and continuous-flow reactors. Nanoscale, 2010, 2, 1441.	5.6	92
72	Sonochemical oxidation of phenol and three of its intermediate products in aqueous media: Catechol, hydroquinone, and benzoquinone. Kinetic and mechanistic aspects. Research on Chemical Intermediates, 1993, 18, 183-202.	2.7	91

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73	Heterogeneous photocatalyzed oxidation of creosote components: mineralization of xylenols by illuminated TiO2 in oxygenated aqueous media. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 89, 163-175.	3.9	89
74	Photocatalytic activity and selectivity of titania colloids and particles prepared by the sol-gel technique: photooxidation of phenol and atrazine. Langmuir, 1993, 9, 2995-3001.	3.5	88
75	On the genesis of heterogeneous photocatalysis: a brief historical perspective in the period 1910 to the mid-1980s. Photochemical and Photobiological Sciences, 2012, 11, 1121-1150.	2.9	88
76	AM1 simulated sunlight photoreduction and elimination of Hg(II) and CH3Hg(II) chloride salts from aqueous suspensions of titanium dioxide. Solar Energy, 1987, 39, 491-498.	6.1	87
77	Fate of amino acids upon exposure to aqueous titania irradiated with UV-A and UV-B radiation Photocatalyzed formation of NH3, NO3â^, and CO2. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 108, 197-205.	3.9	84
78	Photostimulated Generation of Defects and Surface Reactions on a Series of Wide Band Gap Metal-Oxide Solids. Journal of Physical Chemistry B, 1999, 103, 9190-9199.	2.6	83
79	Covalent hydration and pseudobase formation in transition metal polypyridyl complexes: Reality or myth?. Coordination Chemistry Reviews, 1983, 50, 209-302.	18.8	82
80	A decade of heterogeneous photocatalysis in our laboratory: Pure and applied studies in energy production and environmental detoxification. Research on Chemical Intermediates, 1994, 20, 953-992.	2.7	82
81	Photodegradation of surfactants. Journal of Molecular Catalysis, 1990, 59, 279-290.	1.2	80
82	Spectral Dependencies of the Quantum Yield of Photochemical Processes on the Surface of Wide Band Gap Solids. 3. Gas/Solid Systemsâ€. Journal of Physical Chemistry B, 2000, 104, 2989-2999.	2.6	79
83	Electron transfer sensitized photolysis of 'onium salts. Canadian Journal of Chemistry, 1988, 66, 319-324.	1.1	77
84	Application of concept of relative photonic efficiencies and surface characterization of a new titania photocatalyst designed for environmental remediation. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 93, 199-203.	3.9	77
85	Environmental remediation by an integrated microwave/UV-illumination method II.. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 153, 185-189.	3.9	76
86	Photodegradation of surfactants II: Degradation of sodium dodecylbenzene sulphonate catalysed by titanium dioxide particles. Journal of Photochemistry and Photobiology, 1986, 35, 219-230.	0.6	75
87	Transient intermediates in the photolysis of iodonium cations. Canadian Journal of Chemistry, 1987, 65, 2342-2349.	1.1	75
88	Application of nanoparticles in the photocatalytic degradation of water pollutants. Studies in Surface Science and Catalysis, 1997, 103, 417-444.	1.5	74
89	Epitaxial Bi₂FeCrO₆ Multiferroic Thin Film as a New Visible Light Absorbing Photocathode Material. Small, 2015, 11, 4018-4026.	10.0	73
90	Integrated Systems for Water Cleavage by Visible Light; Sensitization of TiO2Particles by Surface Derivatization with Ruthenium Complexes. Helvetica Chimica Acta, 1984, 67, 1012-1018.	1.6	72

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91	Kinetic studies in heterogeneous photocatalysis. 6. AM1 simulated sunlight photodegradation over titania in aqueous media: a first case of fluorinated aromatics and identification of intermediates. Langmuir, 1991, 7, 928-936.	3.5	72
92	Comparison of radiationless decay processes in osmium and platinum porphyrins. Journal of the American Chemical Society, 1983, 105, 4639-4645.	13.7	71
93	Photodegradation of dyes with poor solubility in an aqueous surfactant/TiO2 dispersion under visible light irradiation. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 673-676.	1.7	71
94	Photo-oxidative degradation of the pesticide permethrin catalysed by irradiated TiO2 semiconductor slurries in aqueous media. Journal of Photochemistry and Photobiology A: Chemistry, 1992, 64, 247-254.	3.9	70
95	Environmental remediation by an integrated microwave/UV illumination technique. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 161, 221-225.	3.9	70
96	Polypyridine transition metal complexes as light emission sensitizers in the electrochemical reduction of the persulfate ion. Inorganica Chimica Acta, 1982, 62, 207-213.	2.4	68
97	Stereochemistry and lability of dihalobis(.beta.-diketonato)titanium(IV) complexes. II. Benzoylacetonates and dibenzoylmethanates. Inorganic Chemistry, 1967, 6, 1835-1843.	4.0	67
98	Pulse radiolytic studies of the reaction of pentahalophenols with OH radicals: formation of pentahalophenoxyl, dihydroxypentahalocyclohexadienyl, and semiquinone radicals. Langmuir, 1991, 7, 3081-3089.	3.5	67
99	Spectral Dependence and Wavelength Selectivity in Heterogeneous Photocatalysis. I. Experimental Evidence from the Photocatalyzed Transformation of Phenols. Journal of Physical Chemistry B, 2000, 104, 11202-11210.	2.6	67
100	Light-driven advanced oxidation processes in the disposal of emerging pharmaceutical contaminants in aqueous media: A brief review. Current Opinion in Green and Sustainable Chemistry, 2017, 6, 18-33.	5.9	67
101	Photooxidation of the antidepressant drug Fluoxetine (ProzacÂ®) in aqueous media by hybrid catalytic/ozonation processes. Water Research, 2011, 45, 2782-2794.	11.3	63
102	Sonochemistry II.â€”Effects of ultrasounds on homogeneous chemical reactions and in environmental detoxification. Research on Chemical Intermediates, 1996, 22, 61-89.	2.7	62
103	Photostimulated Reactions at the Surface of Wide Band-Gap Metal Oxides (ZrO2and TiO2): Interdependence of Rates of Reactions on Pressureâ^'Concentration and on Light Intensity. Journal of Physical Chemistry B, 1998, 102, 10906-10916.	2.6	60
104	Turnovers and photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 130, 83-94.	3.9	60
105	On the way to the creation of next generation photoactive materials. Environmental Science and Pollution Research, 2012, 19, 3666-3675.	5.3	60
106	Photochemical reduction of gold(III) on semiconductor dispersions of TiO2 in the presence of CNâ^' ions: disposal of CNâ^' by treatment with hydrogen peroxide. Journal of Photochemistry and Photobiology, 1987, 36, 373-388.	0.6	59
107	Formation of Refractory Ring-Expanded Triazine Intermediates during the Photocatalyzed Mineralization of the Endocrine Disruptor Amitrole and Related Triazole Derivatives at UV-Irradiated TiO2/H2O Interfaces. Environmental Science & Technology, 2005, 39, 2320-2326.	10.0	59
108	Spectral Dependencies of the Quantum Yield of Photochemical Processes on the Surface of Nano-/Microparticulates of Wide-Band-Gap Metal Oxides. 1. Theoretical Approach. Journal of Physical Chemistry B, 1999, 103, 1316-1324.	2.6	58

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109	Sonochemistry I. Effects of ultrasounds on heterogeneous chemical reactions â€“ a useful tool to generate radicals and to examine reaction mechanisms. Research on Chemical Intermediates, 1994, 20, 635-679.	2.7	57
110	Efficient Photoinduced Conversion of an Azo Dye on Hexachloroplatinate(IV)-Modified TiO2 Surfaces under Visible Light Irradiationâ€”A Photosensitization Pathway. Chemistry - A European Journal, 2003, 9, 3292-3299.	3.3	57
111	Microwave Chemical and Materials Processing. , 2018, , .		57
112	Hydrogen from hydrogen sulfide cleavage. Improved efficiencies via modification of semiconductor particulates. International Journal of Hydrogen Energy, 1985, 10, 249-253.	7.1	56
113	Primary Events in the Photocatalytic Deposition of Silver on Nanoparticulate TiO2. Langmuir, 1997, 13, 5082-5088.	3.5	56
114	Mechanistic examination of the titania photocatalyzed oxidation of ethanolamines. New Journal of Chemistry, 2001, 25, 999-1005.	2.8	56
115	Photoinduced Coloration and Photobleaching of Titanium Dioxide in TiO₂/Polymer Compositions upon UV- and Visible-Light Excitation of Color Centers' Absorption Bands:â€‰ Direct Experimental Evidence Negating Band-Gap Narrowing in Anion-/Cation-Doped TiO₂s. Journal of Physical Chemistry C, 2007, 111, 15277-15288.	3.1	55
116	Solar photocatalysis, photodegradation of a commercial detergent in aqueous TiO2 dispersions under sunlight irradiation. Solar Energy, 2004, 77, 525-532.	6.1	53
117	Photodegradation of tetrahalobisphenol-A (X = Cl, Br) flame retardants and delineation of factors affecting the process. Applied Catalysis B: Environmental, 2008, 84, 797-802.	20.2	53
118	Photodegradation of surfactants. V. Photocatalytic degradation of surfactants in the presence of semiconductor particles by solar exposure. Journal of Photochemistry and Photobiology A: Chemistry, 1989, 47, 103-112.	3.9	52
119	Environmental Remediation by an Integrated Microwave/UV Illumination Technique. 3. A Microwave-Powered Plasma Light Source and Photoreactor To Degrade Pollutants in Aqueous Dispersions of TiO2 Illuminated by the Emitted UV/Visible Radiation. Environmental Science & Technology, 2002, 36, 5229-5237.	10.0	52
120	The microwave-/photo-assisted degradation of bisphenol-A in aqueous TiO2 dispersions revisited. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 188, 1-4.	3.9	52
121	Selective heating of Pd/AC catalyst in heterogeneous systems for the microwave-assisted continuous hydrogen evolution from organic hydrides: Temperature distribution in the fixed-bed reactor. International Journal of Hydrogen Energy, 2016, 41, 12029-12037.	7.1	51
122	Heterogeneous Photocatalysis and Prospects of TiO2-Based Photocatalytic DeNOxing the Atmospheric Environment. Catalysts, 2018, 8, 553.	3.5	51
123	Photoelectrochemical decomposition of amino acids on a TiO2/OTE particulate film electrode. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 109, 165-170.	3.9	50
124	Photocatalyzed degradation of polymers in aqueous semiconductor suspensions. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 138, 69-77.	3.9	50
125	Photocatalyzed oxidation and mineralization of C1â€“C5 linear aliphatic acids in UV-irradiated aqueous titania dispersionsâ€”kinetics, identification of intermediates and quantum yields. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 169, 235-251.	3.9	50
126	Effect of Surface Photoreactions on the Photocoloration of a Wide Band Gap Metal Oxide:â€‰ Probing Whether Surface Reactions Are Photocatalytic. Journal of Physical Chemistry B, 2005, 109, 5175-5185.	2.6	50

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127	Photocatalyzed degradation of polymers in aqueous semiconductor suspensions.. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 120, 63-74.	3.9	49
128	Characterization of microwave effects on metal-oxide materials: Zinc oxide and titanium dioxide. Applied Catalysis B: Environmental, 2009, 91, 362-367.	20.2	49
129	Picosecond Time Resolved Studies of Photosensitized Electron Injection in Colloidal Semiconductors. Helvetica Chimica Acta, 1985, 68, 1686-1690.	1.6	48
130	Unusual Effect of the Magnetic Field Component of the Microwave Radiation on Aqueous Electrolyte Solutions. Journal of Microwave Power and Electromagnetic Energy, 2012, 46, 215-228.	0.8	48
131	Dependence on chemical structure of the production of NH 4 + and/or NO 3 ?3 ions during the photocatalyzed oxidation of nitrogen-containing substances at the titania/water interface. Catalysis Letters, 1996, 36, 115-118.	2.6	47
132	A hybrid microreactor/microwave high-pressure flow system of a novel concept design and its application to the synthesis of silver nanoparticles. Chemical Engineering and Processing: Process Intensification, 2013, 73, 59-66.	3.6	47
133	A novel environmental risk-free microwave discharge electrodeless lamp (MDEL) in advanced oxidation processes. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 355-363.	3.9	46
134	Green Chemistry with a Novel 5.8-GHz Microwave Apparatus. Prompt One-Pot Solvent-Free Synthesis of a Major Ionic Liquid: The 1-Butyl-3-methylimidazolium Tetrafluoroborate System. Organic Process Research and Development, 2008, 12, 1089-1093.	2.7	45
135	Photophysical and photochemical primary events in semiconductor particulate systems. Colloidal CdS with methylviologen. Chemical Physics Letters, 1985, 115, 473-476.	2.6	44
136	Photocatalyzed degradation of polymers in aqueous semiconductor suspensions. I. Photooxidation of solid particles of polyvinylchloride. Journal of Polymer Science Part A, 1996, 34, 1311-1316.	2.3	44
137	Towards a better understanding of the initial steps in the photocatalyzed mineralization of amino acids at the titania/water interface. An experimental and theoretical examination of l-alanine, l-serine and l-phenylalanine. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 118, 123-129.	3.9	44
138	Semiconductor photophysics. 5. Charge carrier trapping in ultrasmall silver iodide particles and kinetics of formation of silver atom clusters. Langmuir, 1990, 6, 487-492.	3.5	43
139	Environmental remediation by an integrated microwave/UV illumination technique. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 177, 129-143.	3.9	43
140	Control of microwave-generated hot spots. Part IV. Control of hot spots on a heterogeneous microwave-absorber catalyst surface by a hybrid internal/external heating method. Chemical Engineering and Processing: Process Intensification, 2013, 69, 52-56.	3.6	43
141	Utilization of the Semiconductor Particle as a Microphotoelectrochemical Cell: Electrochemical Evidence for Interparticle Electron Transfer and Application to Photocatalysis. Journal of the Electrochemical Society, 1988, 135, 2760-2766.	2.9	42
142	Beneficial effects of photo-inactive titanium dioxide specimens on plasmid DNA, human cells and yeast cells exposed to UVA/UVB simulated sunlight. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 179, 200-212.	3.9	42
143	Chemical Reactions with a Novel 5.8-GHz Microwave Apparatus. 1. Characterization of Properties of Common Solvents and Application in a Dielsâ€“Alder Organic Synthesis. Organic Process Research and Development, 2008, 12, 257-263.	2.7	42
144	Photochemical, photophysical, and thermal behavior of the tris(1,10-phenanthroline)chromium(III) ion in aqueous solution. Inorganic Chemistry, 1983, 22, 2502-2509.	4.0	41

#	Article	IF	Citations
145	Control of Microwave-Generated Hot Spots. 6. Generation of Hot Spots in Dispersed Catalyst Particulates and Factors That Affect Catalyzed Organic Syntheses in Heterogeneous Media. Industrial & Engineering Chemistry Research, 2014, 53, 14941-14947.	3.7	41
146	Photodegradation of surfactants XIV. Formation of NG4+ and NO3â^' ions for the photocatalyzed mineralization of nitrogendashcontaining cationic, nondashionic and amphoteric surfactants. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 91, 145-152.	3.9	40
147	Spectral Dependencies of the Quantum Yield of Photochemical Processes on the Surface of Nano/Micro-Particulates of Wide-Band-Gap Metal Oxides. IV. Theoretical Modeling of the Activity and Selectivity of Semiconductor Photocatalysts with Inclusion of a Subsurface Electric Field in the Space Charge Region. Journal of Physical Chemistry B, 2003, 107, 7109-7119.	2.6	40
148	Spectral dependence of quantum yields in gasâ€"solid heterogeneous photosystems. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 97-102.	3.9	39
149	DNA Damage Photoinduced by Cosmetic Pigments and Sunscreen Agents under Solar Exposure and Artificial UV Illumination. Journal of Oleo Science, 2006, 55, 249-261.	1.4	39
150	Photoassisted Oxidation of the Recalcitrant Cyanuric Acid Substrate in Aqueous ZnO Suspensions. Journal of Physical Chemistry C, 2007, 111, 18025-18032.	3.1	39
151	Photodegradation of surfactants IX: The photocatalysed oxidation of polyoxyethylene alkyl ether homologues at TiO2-water interfaces. Journal of Photochemistry and Photobiology A: Chemistry, 1992, 64, 103-113.	3.9	38
152	Solar fuels: Status and perspectives. Solar Energy, 1992, 49, 221-234.	6.1	38
153	Photophysics of Thiacarbocyanine Dyes:Â Relaxation Dynamics in a Homologous Series of Thiacarbocyanines. Journal of Physical Chemistry A, 1997, 101, 9877-9883.	2.5	38
154	On the recalcitrant nature of the triazinic ring species, cyanuric acid, to degradation in Fenton solutions and in UV-illuminated TiO2 (naked) and fluorinated TiO2 aqueous dispersions. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 174, 229-238.	3.9	38
155	Mechanistic Studies of the Formation of Different States of Oxygen on Irradiated ZrO2and the Photocatalytic Nature of Photoprocesses from Determination of Turnover Numbers. Journal of Physical Chemistry B, 2005, 109, 2785-2792.	2.6	38
156	Thermo- and Photo-stimulated Effects on the Optical Properties of Rutile Titania Ceramic Layers Formed on Titanium Substrates. Chemistry of Materials, 2013, 25, 170-177.	6.7	38
157	Effect of CdS preparation on the photo-catalyzed decomposition of hydrogen sulfide in alkaline aqueous media. Inorganica Chimica Acta, 1984, 90, 191-196.	2.4	37
158	Kinetic studies in heterogeneous photocatalysis 4. The photomineralization of a hydroquinone and a catechol. Journal of Photochemistry and Photobiology A: Chemistry, 1990, 55, 243-249.	3.9	37
159	Microwave-assisted dechlorination of polychlorobenzenes by hypophosphite anions in aqueous alkaline media in the presence of Pd-loaded active carbon. Journal of Hazardous Materials, 2007, 148, 22-28.	12.4	37
160	Enhanced remediation of simulated wastewaters contaminated with 2-chlorophenol and other aquatic pollutants by TiO2-photoassisted ozonation in a sunlight-driven pilot-plant scale photoreactor. Solar Energy, 2011, 85, 938-944.	6.1	37
161	Kinetics of ligand substitution of tris(2,2'-bipyridine)chromium(III) in aqueous solutions. Inorganic Chemistry, 1976, 15, 2048-2051.	4.0	36
162	Photodegradation of surfactants IV: Photodegradation of non-ionic surfactants in aqueous titanium dioxide suspensions. Journal of Photochemistry and Photobiology A: Chemistry, 1988, 42, 375-381.	3.9	36

#	Article	IF	Citations
163	Microwave frequency effect in the formation of Au nanocolloids in polar and non-polar solvents. Nanoscale, 2011, 3, 1697.	5.6	36
164	A novel liquid plasma AOP device integrating microwaves and ultrasounds and its evaluation in defluorinating perfluorooctanoic acid in aqueous media. Ultrasonics Sonochemistry, 2011, 18, 938-942.	8.2	36
165	Kinetic analysis of the configurational rearrangements in and the stereochemistry of some organotin(IV) .beta.-ketoenolate complexes. Inorganic Chemistry, 1974, 13, 2901-2907.	4.0	35
166	Comparative assessment of the efficiency of TiO2/OTE thin film electrodes fabricated by three deposition methods. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 138, 185-192.	3.9	35
167	Relaxation dynamics of processes in colloidal zirconia nanosols. Dependence on excitation energy and temperature. Chemical Physics Letters, 2001, 345, 105-110.	2.6	35
168	The electromagnetic wave energy effect(s) in microwaveâ€“assisted organic syntheses (MAOS). Scientific Reports, 2018, 8, 5151.	3.3	35
169	On the question of Ring currents in metal acetylacetonates. Electric field effects on the proton resonances of cationic and anionic .beta.-diketonate complexes. Journal of the American Chemical Society, 1968, 90, 5701-5706.	13.7	34
170	Luminescence quenching of tris(2,2'-bipyridine) complexes of chromium(III), ruthenium(II), and osmium(II) by cyanide complexes. Inorganic Chemistry, 1978, 17, 2258-2261.	4.0	34
171	Modelling heterogeneous photocatalysis by metal-oxide nanostructured semiconductor and insulator materials: factors that affect the activity and selectivity of photocatalysts. Research on Chemical Intermediates, 2005, 31, 391-432.	2.7	34
172	Wavelength-dependent photostimulated adsorption of molecular O2 and H2 on second generation titania photocatalysts: The case of the visible-light-active N-doped TiO2 system. Chemical Physics Letters, 2008, 454, 279-283.	2.6	34
173	Remediation of simulated aquatic sites contaminated with recalcitrant substrates by TiO2/ozonation under natural sunlight. Applied Catalysis B: Environmental, 2009, 91, 242-246.	20.2	34
174	The mechanisms of photoreactivity of coordination compounds: limiting cases of decay on a specific nuclear coordinate (dosenco) or via random coordinat. Coordination Chemistry Reviews, 1981, 39, 181-224.	18.8	33
175	Photosensitization of semiconductors with transition metal complexes - a route to the photoassisted cleavage of water. Coordination Chemistry Reviews, 1985, 64, 225-245.	18.8	33
176	Efficient photochemical conversion of aqueous sulphides and sulphites to hydrogen using a rhodium-loaded CdS photocatalyst. Journal of Photochemistry and Photobiology, 1986, 33, 35-48.	0.6	33
177	A mechanistic study of the photoelectrochemical oxidation of organic compounds on a TiO2/TCO particulate film electrode assembly. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 98, 73-78.	3.9	33
178	Microwave-enhanced radical reactions at ambient temperature : Part 3: Highly selective radical synthesis of 3-cyclohexyl-1-phenyl-1-butanone in a microwave double cylindrical cooled reactor. New Journal of Chemistry, 2008, 32, 2257.	2.8	33
179	Novel designs of microwave discharge electrodeless lamps (MDEL) in photochemical applications. Use in advanced oxidation processes. Photochemical and Photobiological Sciences, 2009, 8, 1087-1104.	2.9	33
180	On the influence of the microwavesâ€™ thermal and non-thermal effects in titania photoassisted reactions. Catalysis Today, 2014, 224, 225-235.	4.4	33

#	Article	IF	Citations
181	Photoactivity and photoselectivity of a dielectric metal-oxide photocatalyst (ZrO2) probed by the photoinduced reduction of oxygen and oxidation of hydrogen. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 174, 214-221.	3.9	32
182	Dipole moments and electric field effects on the proton chemical shifts of halo(acetylacetonato) complexes of Group IV metals. Inorganic Chemistry, 1969, 8, 2379-2384.	4.0	31
183	Permutational and mechanistic analysis of the configurational rearrangements in R2Sn(acac)2 and RClSn(acac)2 complexes. Inorganic Chemistry, 1974, 13, 2908-2913.	4.0	31
184	Photodecomposition of H2S in aqueous alkaline media catalyzed by RuO2-loaded alumina in the presence of cadmium sulfide. Application of the inter-particle electron transfer mechanism. Inorganica Chimica Acta, 1986, 112, 197-201.	2.4	31
185	Primary radicals in the photo-oxidation of aromatics â€" reactions of xylenols with â€¢OH, N3â€¢ and Hâ€¢ radicals and formation and characterization of dimethylphenoxyl, dihydroxydimethylcyclohexadienyl and hydroxydimethylcyclohexadienyl radicals by pulse radiolysis. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 90, 125-135.	3.9	31
186	Spectral Selectivity of Photocatalyzed Reactions Occurring in Liquidâ^'Solid Photosystems. Journal of Physical Chemistry B, 2002, 106, 12221-12226.	2.6	31
187	Microwave Flow Chemistry as a Methodology in Organic Syntheses, Enzymatic Reactions, and Nanoparticle Syntheses. Chemical Record, 2019, 19, 118-139.	5.8	31
188	Sunscreens and their usefulness: have we made any progress in the last two decades?. Photochemical and Photobiological Sciences, 2021, 20, 189-244.	2.9	31
189	Interligand pockets in polypyridyl complexes. Crystal and molecular structure of the bis(terpyridyl)chromium(III) cation. Inorganic Chemistry, 1982, 21, 2694-2698.	4.0	30
190	Mechanistic study of the TiO2-assisted photodegradation of squarylium cyanine dye in methanolic suspensions exposed to visible light. New Journal of Chemistry, 2000, 24, 93-98.	2.8	30
191	Photocatalyzed degradations on a TiO2-coated quartz crystal microbalance. I. Adsorption/desorption processes in the degradation of phenol and catechol. New Journal of Chemistry, 2003, 27, 1371.	2.8	30
192	In situ picosecond transient diffuse reflectance spectroscopy of opaque TiO₂ systems under microwave irradiation and influence of oxygen vacancies on the UV-driven/microwave-assisted TiO₂ photocatalysis. Journal of Materials Chemistry C, 2015, 3, 5958-5969.	5.5	30
193	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY, and cis-M(AB)2X2 complexes. 6. Bis(chelate)bis(2,6-diisopropylphenoxy)titanium systems (chelate = acetylacetonate,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2		
194	Microwave frequency effects on the photoactivity of TiO2: Dielectric properties and the degradation of 4-chlorophenol, bisphenol A and methylene blue. Chemical Physics Letters, 2009, 470, 304-307.	2.6	29
195	Microwave-Specific Effects in Various TiO2 Specimens. Dielectric Properties and Degradation of 4-Chlorophenol. Journal of Physical Chemistry C, 2009, 113, 5649-5657.	3.1	29
196	Photophysics of bis(p-N,N-dimethylamino)benzylidene acetone: Does photoinduced electron transfer occur from a twisted excited state?. Canadian Journal of Chemistry, 1989, 67, 1565-1575.	1.1	28
197	Optical limiting characteristics and mechanism of silver bromide nanosols. Journal of Applied Physics, 1996, 79, 8030-8037.	2.5	28
198	Photo-induced processes in heterogeneous nanosystems. From photoexcitation to interfacial chemical transformations. International Journal of Photoenergy, 2001, 3, 1-16.	2.5	28

#	Article	IF	Citations
199	Photophysics and photochemistry of polypyridyl complexes of chromium(III). Inorganic Chemistry, 1981, 20, 3983-3988.	4.0	27
200	(Photo)electrochemical behavior of selected organic compounds on TiO2 electrodes. Overall relevance to heterogeneous photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 130, 145-156.	3.9	27
201	Photoreactions occurring on metal-oxide surfaces are not all photocatalytic. Catalysis Today, 2007, 122, 91-100.	4.4	27
202	Stereochemistry of, and kinetics of environmental averaging processes in some organogermanium(IV) and organosilicon(IV) chelates. Journal of Organometallic Chemistry, 1975, 84, 177-189.	1.8	26
203	Chromium(III)-polypyridyls: A case study. Journal of Chemical Education, 1983, 60, 853.	2.3	26
204	Characteristics of microwaves on second generation nitrogen-doped TiO2 nanoparticles and their effect on photoassisted processes. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 191-200.	3.9	26
205	Sunlight photocatalytic degradation of organic pollutants in aquatic systems. Waste Management, 1990, 10, 65-71.	7.4	25
206	Photodegradation of surfactants X. Comparison of the photo-oxidation of the aromatic moieties in sodium dodecylbenzene sulphonate and in sodium phenyldodecyl sulphonate at TiO2î—¸H2O interfaces. Journal of Photochemistry and Photobiology A: Chemistry, 1992, 69, 251-256.	3.9	25
207	Spectral Dependencies of the Quantum Yield of Photochemical Processes on the Surface of Wide-Band-Gap Metal Oxides. 2. Gas/Solid System Involving Scandia (Sc2O3) Particles. Journal of Physical Chemistry B, 1999, 103, 1325-1331.	2.6	25
208	Photoinduced Agn0 cluster deposition. Sensors and Actuators B: Chemical, 2007, 123, 822-828.	7.8	25
209	Solid-state synthesis, characterization, UV-induced coloration and photocatalytic activity â€“ The Sr6Bi2O11, Sr3Bi2O6 and Sr2Bi2O5 bismuthates. Catalysis Today, 2020, 340, 70-85.	4.4	25
210	Photoluminescent Carbon Quantum Dots: Synthetic Approaches and Photophysical Properties. Chemistry - A European Journal, 2021, 27, 9466-9481.	3.3	25
211	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY, and cis-M(AB)2X2 complexes. I. A permutational analysis. Inorganic Chemistry, 1976, 15, 948-954.	4.0	24
212	Influence of lattice distortion and oxygen vacancies on the UV-driven/microwave-assisted TiO2 photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 265, 20-28.	3.9	24
213	Coupled Microwave/Photoassisted Methods for Environmental Remediation. Molecules, 2014, 19, 18102-18128.	3.8	24
214	Five-coordinate titanium(IV) complexes. Infrared spectral studies on X3Ti(diketonato) and XY2Ti(diketonato) complexes and the crystal and molecular structure of di-.mu.-chloro-tetrachlorobis(2,4-pentanedionato)dititanium(IV). Inorganic Chemistry, 1977, 16, 2381-2386.	4.0	23
215	Photocatalyzed transformation of cyanide to thiocyanate by rhodium-loaded cadmium sulfide in alkaline aqueous sulfide media. Inorganic Chemistry, 1986, 25, 2135-2137.	4.0	22
216	Reduction of acceptor relay species by conduction band electrons of colloidal titanium dioxide; light-induced charge separation in the picosecond time domain. Chemical Physics Letters, 1987, 136, 47-51.	2.6	22

#	Article	IF	Citations
217	Photocatalyzed degradation on a TiO2-coated quartz crystal microbalance. Adsorption/desorption processes in real time in the degradation of benzoic acid and salicylic acid. Catalysis Communications, 2006, 7, 331-335.	3.3	22
218	Investigation of factors that influence TiO2 photoassisted degradations under simultaneous illumination by UV and microwave radiation fields. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 196, 159-164.	3.9	22
219	Temperature dependence of the photoaquation of tris(2,2'-bipyridine)chromium(III) ion in alkaline solution. Inorganic Chemistry, 1979, 18, 214-216.	4.0	21
220	A picosecond kinetic study of the excited-state properties of some osmium octaethylporphyrins. Journal of the American Chemical Society, 1982, 104, 246-252.	13.7	21
221	EPR Characteristics of a dye/colloidal TiO2 system under visible light irradiation. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 2375-2378.	1.7	21
222	Photo-induced oxidative synergistic degradation of mixed anionic/cationic surfactant systems in aqueous dispersions. A detailed study of the DBS/HTAB system. Applied Catalysis B: Environmental, 2010, 99, 485-489.	20.2	21
223	Hydroxide ion assisted aquation of tris(2,2'-bipyridine)chromium(III) ion. Inorganic Chemistry, 1978, 17, 2432-2436.	4.0	20
224	Ground-state quenching of the 2E excited state of tris(2,2'-bipyridine)chromium(3+) and tris(1,10-phenanthroline)chromium(3+). Journal of the American Chemical Society, 1980, 102, 1754-1756.	13.7	20
225	Chromium(II)-polypyridyl complexes: formation, spectra, and electron-transfer kinetics. Journal of the American Chemical Society, 1981, 103, 1091-1098.	13.7	20
226	Picosecond spectroscopy of transition metal complexes. Coordination Chemistry Reviews, 1989, 93, 87-153.	18.8	20
227	Photochemical and Photophysical Processes on the Surface of Wide Band Gap Insulator Particulates: Gas/Solid System Involving Scandia (Sc2O3) Particles. Chemistry of Materials, 1998, 10, 3484-3491.	6.7	20
228	A Novel Dewar-Like Reactor for Maintaining Constant Heat and Enhancing Product Yields during Microwave-Assisted Organic Syntheses. Organic Process Research and Development, 2010, 14, 1453-1456.	2.7	20
229	Microwave discharge electrodeless lamps (MDELs). VI. Performance evaluation of a novel microwave discharge granulated electrodeless lamp (MDGEL)â€"Photoassisted defluorination of perfluoroalkoxy acids in aqueous media. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 97-104.	3.9	20
230	Water Will Be the Coal of the Futureâ€"The Untamed Dream of Jules Verne for a Solar Fuel. Molecules, 2016, 21, 1638.	3.8	20
231	Effect of microwave radiation on the activity of catalase. decomposition of hydrogen peroxide under microwave and conventional heating. RSC Advances, 2016, 6, 48237-48244.	3.6	20
232	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY, and 3. The cis-M(AA)2X2 system - diastereotopic probe on the terminal AA groups [1, 2]. Inorganica Chimica Acta, 1978, 28, 169-175.	2.4	19
233	Photodegradation of surfactants. Part XII: Photocatalyzed mineralization of phosphorus-containing surfactants at TiO2/H2O interfaces. Journal of Molecular Catalysis, 1994, 88, 239-248.	1.2	19
234	Reactions of Hexafluorobenzene and Pentafluorophenol Catalyzed by Irradiated TiO2 in Aqueous Suspensions. Langmuir, 1994, 10, 692-698.	3.5	19

#	Article	IF	Citations
235	Microwave discharge electrodeless lamps (MDEL). III. A novel tungsten-triggered MDEL device emitting VUV and UVC radiation for use in wastewater treatment. Photochemical and Photobiological Sciences, 2008, 7, 303-310.	2.9	19
236	Organic syntheses by microwave selective heating of novel metal/CMC catalysts â€“ The Suzukiâ€“Miyaura coupling reaction in toluene and the dehydrogenation of tetralin in solvent-free media. Journal of Catalysis, 2012, 289, 266-271.	6.2	19
237	Considerations of Trends in Heterogeneous Photocatalysis. Correlations between Conduction and Valence Band Energies with Bandgap Energies of Various Photocatalysts. ChemCatChem, 2019, 11, 3534-3541.	3.7	19
238	Oxygen quenching of metal-centered excited states of polypyridyl complexes of chromium(III). Inorganica Chimica Acta, 1978, 31, L447-L449.	2.4	18
239	A FT-IR (DRIFT) study of the influence of halogen substituents on the TiO2-assisted photooxidation of phenol and p-halophenols under weak room light irradiance. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 194, 189-199.	3.9	18
240	Photodegradation of Surfactants. III.. Journal of Japan Oil Chemists Society, 1987, 36, 836-839.	0.1	18
241	Kinetics and mechanisms of intermolecular ligand exchange. I. Diphenyltin- and dimethyltin acetylacetonate. Inorganic Chemistry, 1974, 13, 52-57.	4.0	17
242	Picosecond laser spectroscopy of chromium(III) complexes. Probing the photophysics of 4T2 excited states of Cr(bpy)33+ and Cr(4,7-Me2phen)33+ ions in aqueous solution. Chemical Physics Letters, 1984, 104, 87-92.	2.6	17
243	Title is missing!. Catalysis Letters, 1999, 60, 95-98.	2.6	17
244	Assessment and influence of operational parameters on the TiO2 photocatalytic degradation of sodium benzene sulfonate under highly concentrated solar light illumination. Solar Energy, 2001, 71, 305-313.	6.1	17
245	Enhanced photocurrent generation and photooxidation of benzene sulfonate in a continuous flow reactor using hybrid TiO2 thin films immobilized on OTE electrodes. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 146, 109-119.	3.9	17
246	Near-quantitative mineralization of two refractory triazines under hydrothermal-supercritical aqueous conditions assisted by ozone and UV/ozone. New Journal of Chemistry, 2003, 27, 1216.	2.8	17
247	Microwave Frequency Effect(s) in Organic Chemistry. Mini-Reviews in Organic Chemistry, 2011, 8, 299-305.	1.3	17
248	In situ study of photo- and thermo-induced color centers in photochromic rutile TiO2 in the temperature range 90â€“720 K. Photochemical and Photobiological Sciences, 2016, 15, 1289-1298.	2.9	17
249	Photoinduced Processes in Heterogeneous Gasâ^'Solid Systems. Temperature Dependence (100â^'600 K) and Modeling of a Surface Chemical Reaction on Zirconia that Triggers Photophysical Events in the Solid. Journal of Physical Chemistry B, 2002, 106, 5956-5966.	2.6	16
250	Microwave-enhanced bromination of a terminal alkyne in short time at ambient temperature: Synthesis of phenylacetylene bromide. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 374-379.	3.9	16
251	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY, and cis-M(AB)2X2 complexes. 2. A topological and mechanistic analysis. Inorganic Chemistry, 1976, 15, 2577-2582.	4.0	15
252	The Potentiality of Chromium(III)â€Polypyridyl Complexes Toward Use in Photochemical Solar Energy Conversion. Israel Journal of Chemistry, 1982, 22, 91-97.	2.3	15

#	Article	IF	Citations
253	Peroxide and Aldehyde Formation in the Photocatalyzed Oxidation of Nonionic Surfactants. Journal of Japan Oil Chemists Society, 1990, 39, 963-966.	0.1	15
254	Heterogeneous Photocatalyzed Oxidation of Phenol, Cresols, and Fluorophenols in TiO2 Aqueous Suspensions. Advances in Chemistry Series, 1993, , 281-314.	0.6	15
255	Excited State Dynamics of trisbipyridylruthenium(2+),Ru(bpy)32+, on Porous Vycor Glass. Intervention of a Ligand Localized Triplet State. Journal of the American Chemical Society, 1994, 116, 5343-5351.	13.7	15
256	Photoinduced chesorluminescence from radical processes on ZrO2 surfaces. Chemical Physics Letters, 2000, 325, 288-292.	2.6	15
257	Prebiotic chemistry: chemical evolution of organics on the primitive Earth under simulated prebiotic conditions. Photochemical and Photobiological Sciences, 2007, 6, 1210-1217.	2.9	15
258	Enhanced Ga2O3-photocatalyzed and photochemical degradation of the Fipronil insecticide by UVC irradiation in mixed aqueous/organic media under an inert atmosphere. Photochemical and Photobiological Sciences, 2015, 14, 919-928.	2.9	15
259	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY and cis-M(AB)2X2 complexes. 8. The cis-M(AA)2XY system, Y = OiC3H7 and 2,6-(iC3H7)2C6H3O. Inorganica Chimica Acta, 1980, 40, 213-216.	2.4	14
260	Quartet vs. doublet excited-state reactivity in tris(2,2'-bipyridine)chromium(3+) ion. Temperature dependence of quenchable and unquenchable photoaquation. Journal of the American Chemical Society, 1983, 105, 2933-2937.	13.7	14
261	Quantum yield of formation of methylviologen radical cation from the photolysis of the Ru(bpz)32+/methylviologen/EDTA system. Chemical Physics Letters, 1985, 121, 61-64.	2.6	14
262	Influence of alcoholic and carbonyl functions in microwave-assisted and photo-assisted oxidative mineralization. Applied Catalysis B: Environmental, 2009, 89, 284-287.	20.2	14
263	Photoassisted defluorination of fluorinated substrates and pharmaceuticals by a wide bandgap metal oxide in aqueous media. Photochemical and Photobiological Sciences, 2013, 12, 751-759.	2.9	14
264	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY and cis-M(AB)2X2 complexes 9. The cis-M(AB)2X2 System - diastereotopic probe on AB. Inorganica Chimica Acta, 1980, 43, 185-189.	2.4	13
265	Photophysics of chromium(III)-polypyridyl complexes. Effect of pH and [chloride ion concentration] on the lifetimes of the 2T1/2E excited states. Inorganic Chemistry, 1987, 26, 2984-2988.	4.0	13
266	Dynamics and mechanistic features in the photocatalyzed oxidation of disulfonated anionic surfactants on the surface of UV-irradiated titania nanoparticlesElectronic supplementary information (ESI) available: calculated frontier electron densities and point charges of selected atoms in the DOBS derivatives and in the DBS system taken for comparison. See http://www.rsc.org/suppdata/nj/b4/b402583k/. New Journal of Chemistry, 2004, 28, 1100.	2.8	13
267	Photoassisted mineralization of aromatic and aliphatic N-heterocycles in aqueous titanium dioxide suspensions and the fate of the nitrogen heteroatoms. Applied Catalysis B: Environmental, 2008, 78, 139-150.	20.2	13
268	Microwave discharge electrodeless lamps (MDEL) Part IV. Novel self-ignition system incorporating metallic microwave condensing cones to activate MDELs in photochemical reactions. Photochemical and Photobiological Sciences, 2009, 8, 1618-1625.	2.9	13
269	Molecular dynamics simulations of adsorption of hydrophobic 1,2,4-trichlorobenzene (TCB) on hydrophilic TiO2 in surfactant emulsions and experimental process efficiencies of photo-degradation and -dechlorination. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 141-146.	3.9	13
270	Effect of microwave radiation on the (Raman) lattice phonons in selected titanium dioxide solid specimens. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 220, 94-101.	3.9	13

#	Article	IF	Citations
271	Real-Time in Situ Monitoring of Optical Absorption Changes in Visible-Light-Active TiO₂ under Light Irradiation and Temperature-Programmed Annealing. Journal of Physical Chemistry C, 2014, 118, 27583-27593.	3.1	13
272	Microwave-assisted organic syntheses: microwave effect on intramolecular reactions â€“ the Claisen rearrangement of allylphenyl ether and 1-allyloxy-4-methoxybenzene. RSC Advances, 2015, 5, 90272-90280.	3.6	13
273	Calcium Bismuthate Nanoparticulates with Orthorhombic and Rhombohedral Crystalline Lattices: Effects of Composition and Structure on Photoactivity. ChemistrySelect, 2017, 2, 9851-9863.	1.5	13
274	UV-induced formation of color centers in dispersed TiO2 particles: Effect of thermal treatment, metal (Al) doping, and adsorption of molecules. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 354, 33-46.	3.9	13
275	Revisiting the BaBiO3 semiconductor photocatalyst: synthesis, characterization, electronic structure, and photocatalytic activity. Photochemical and Photobiological Sciences, 2021, 20, 1147-1160.	2.9	13
276	Solvent isotope effect on the quartet .fwdarw. doublet intersystem crossing efficiencies of tris(2,2'-bipyridine)chromium(3+) and tris(1,10-phenanthroline)chromium(3+). Journal of the American Chemical Society, 1981, 103, 997-998.	13.7	12
277	Photochemical and Ga2O3-photoassisted decomposition of the insecticide Fipronil in aqueous media upon UVC radiation. New Journal of Chemistry, 2014, 38, 3939-3952.	2.8	12
278	Enzymatic proteolysis of peptide bonds by a metallo-endoproteinase under precise temperature control with 5.8-GHz microwave radiation. Journal of Molecular Catalysis B: Enzymatic, 2015, 116, 52-59.	1.8	12
279	Microwave discharge electrodeless lamps (MDELs). Part IX. A novel MDEL photoreactor for the photolytic and chemical oxidation treatment of contaminated wastewaters. Photochemical and Photobiological Sciences, 2015, 14, 2187-2194.	2.9	12
280	In-liquid Plasma. A stable light source for advanced oxidation processes in environmental remediation. Radiation Physics and Chemistry, 2018, 147, 53-58.	2.8	12
281	Phenomenological Rule from Correlations of Conduction/Valence Band Energies and Bandgap Energies in Semiconductor Photocatalysts: Calcium Bismuthates versus Strontium Bismuthates. ChemCatChem, 2020, 12, 1551-1555.	3.7	12
282	Materials synthesis, characterization and DFT calculations of the visible-light-active perovskite-like barium bismuthate Ba_{1.264(4)}Bi_{1.971(4)}O₄ photocatalyst. Journal of Materials Chemistry C, 2020, 8, 3509-3519.	5.5	12
283	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY and cis-M(AB)2X2 complexes. 7. The cis-M(AA)2XY system - diastereotopic probe on AA [1]. Inorganica Chimica Acta, 1980, 38, 177-181.	2.4	11
284	On the reduction of trivalent metal-polypyridine complexes by OHâ˙ ion in aqueous solutions: An alternative pathway. Inorganica Chimica Acta, 1983, 75, 189-192.	2.4	11
285	Electron transfer quenching of rhodamineâ€6G in polymer films. Journal of Chemical Physics, 1989, 90, 3373-3379.	3.0	11
286	Photochemical reactions on the surface of a circular disk: a theoretical approach to kinetics in restricted two-dimensional space. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 98, 1-14.	3.9	11
287	Remediation of aquatic environments contaminated with hydrophilic and lipophilic pharmaceuticals by TiO2-photoassisted ozonation. Journal of Environmental Chemical Engineering, 2014, 2, 84-89.	6.7	11
288	A nuclear magnetic resonance study of the structure of diphenylbis(2,4-pentanedionato)tin(IV) complex. Inorganic and Nuclear Chemistry Letters, 1971, 7, 115-118.	0.7	10

#	Article	IF	Citations
289	Photophysics of all-trans-retinoic acid (ATRA) chemisorbed to nanoparticulate TiO2: Evidence for TiO2* to ATRA energy transfer and reverse electron transfer sensitisation. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 115, 231-238.	3.9	10
290	Photoinduced Adsorption of Hydrogen and Methane on Î³-Alumina. The Photoinduced Chesorluminescence (PhICL) Effect. Langmuir, 2004, 20, 129-135.	3.5	10
291	Visibleâ€“NIR Light Absorption of Titania Thermochemically Fabricated from Titanium and its Alloys; UV- and Visible-Light-Induced Photochromism of Yellow Titania. Journal of Physical Chemistry C, 2013, 117, 25852-25864.	3.1	10
292	Luminescence of photoactivated pristine and Cr-doped MgAl2O4 spinel. Chemical Physics Letters, 2015, 626, 6-10.	2.6	10
293	Energy Savings through Microwave Selective Heating of Pd/AC Catalyst Particulates in a Fixedâ€Bed Reactor. Chemical Engineering and Technology, 2016, 39, 1575-1577.	1.5	10
294	Is Selective Heating of the Sulfonic Acid Catalyst AC-SO3H by Microwave Radiation Crucial in the Acid Hydrolysis of Cellulose to Glucose in Aqueous Media?. Catalysts, 2017, 7, 231.	3.5	10
295	Application of Variable Frequency Microwaves in Microwave-Assisted Chemistry: Relevance and Suppression of Arc Discharges on Conductive Catalysts. Catalysts, 2020, 10, 777.	3.5	10
296	Luminescent monodispersed carbon quantum dots by a microwave solvothermal method toward bioimaging applications. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 415, 113310.	3.9	10
297	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY, and cis-M(AB)2X2 complexes. 10. The cis-M(AB)2X2 system - diastereotopic probe on the X ligands. Inorganica Chimica Acta, 1982, 57, 211-216.	2.4	9
298	8. Titanium. Coordination Chemistry Reviews, 1984, 57, 301-343.	18.8	9
299	Excited-state spectra and lifetimes for oxomethoxomolybdenum(V) tetraphenylporphine: a comparison of d1 and d9 metalloporphyrin photophysics. Inorganic Chemistry, 1984, 23, 454-457.	4.0	9
300	4 Titanium. Coordination Chemistry Reviews, 1988, 90, 243-315.	18.8	9
301	Mechanistic inferences of the photocatalyzed oxidation of chlorinated phenoxyacetic acids by electrospray mass spectral techniques and from calculated point charges and electron densities on all atoms. New Journal of Chemistry, 2003, 27, 836-843.	2.8	9
302	Microwave specific effects in organic synthesis: A proposed model from the solvent-free synthesis of monoglycerylcetyldimethylammonium chloride. Chemical Physics Letters, 2010, 491, 244-247.	2.6	9
303	Second Generation Visible-Light-Active Photocatalysts: Preparation, Optical Properties, and Consequences of Dopants on the Band Gap Energy of TiO2. Nanostructure Science and Technology, 2010, , 35-111.	0.1	9
304	Development of a Hg-free UV light source and its performance in photolytic and photocatalytic applications. Photochemical and Photobiological Sciences, 2019, 18, 328-335.	2.9	9
305	Configurational rearragements in cis-M(AA)2X2, cis-M(AA)2XY, and cis-M(AB)2X2 complexes. 4. The cis-M(AA)2X2 system: Ti(3-iC3H7-acac)2Cl2. Inorganica Chimica Acta, 1977, 25, L139-L141.	2.4	8
306	Oxidative substitution reaction of the osmochrome Os(OEP)[P(OMe)3]2 in chlorinated solvents. Journal of Photochemistry and Photobiology, 1981, 15, 295-301.	0.6	8

#	Article	IF	Citations
307	Photocurrent enhancement from an active hybrid TiO2film electrode fabricated by a solâ€“gel method: photocurrent generation during the photooxidation of 4-nonylphenol and 4-nonylphenol polyethoxylate on TiO2/OTE electrodes. New Journal of Chemistry, 2002, 26, 1161-1166.	2.8	8
308	Modeling and Experimental Examination of the Solonitsyn Memory Effect on the Surface of Wide Band Gap Metal Oxides. Journal of Physical Chemistry B, 2004, 108, 2354-2361.	2.6	8
309	Photocatalyzed oxidation and mineralization of branched and oxidized C4 and C5 aliphatic acids in UV-irradiated aqueous titania dispersions. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 170, 51-60.	3.9	8
310	Additional Specific Channel of Photoactivation of Solid Semiconductors. A Revisit of the Thermo-/Photo-Stimulated Bleaching of Photoinduced Ti3+ Color Centers in Visible-Light-Active Photochromic Rutile Titania. Journal of Physical Chemistry C, 2018, 122, 13294-13303.	3.1	8
311	Ligand-exchange equilibrium studies of some octacoordinate yttrium(III)-.beta.-diketonate complexes by proton nuclear magnetic resonance spectroscopy. Inorganic Chemistry, 1971, 10, 2650-2656.	4.0	7
312	Kinetics of Environmental Averaging, and the Stereochemistry of (CH3)ClGe(C5H7O2)2. A Case of a Second Order Kinetic Process. Canadian Journal of Chemistry, 1975, 53, 448-454.	1.1	7
313	Configurational rearrangements in cis-M(AA)2X2, cis-M(AA)2XY, and cis-M(AB)2X2 complexes. 5. The cis-M(AA)2X2 system - diastereotopic probe on the monodentate X ligands. Inorganica Chimica Acta, 1979, 32, 217-228.	2.4	7
314	Acta, 1983, 72, 247-252.	2.4	7
315	Influence of Humidity and of the Electric and Magnetic Microwave Radiation Fields on the Remediation of TCE-contaminated Natural Sandy Soils. Journal of Oleo Science, 2011, 60, 375-383.	1.4	7
316	Microwave Discharge Electrodeless Lamps. Part VIII: Continuous Onâ€Site Solar Energy Remediation of Contaminated Water. Chemical Engineering and Technology, 2016, 39, 102-107.	1.5	7
317	Low-temperature microwave-driven thermochemical generation of hydrogen from steam reforming of alcohols over magnetite. International Journal of Hydrogen Energy, 2022, 47, 23520-23529.	7.1	7
318	Reply to â€œa comment on the lifetime of the quartet state in chromium(III) polypyridyl complexesâ€• Chemical Physics Letters, 1986, 123, 551-552.	2.6	6
319	Photoassisted dehalogenation and mineralization of chloro/fluoro-benzoic acid derivatives in aqueous media. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 197, 115-123.	3.9	6
320	Microwave-driven hydrogen production (MDHP) from water and activated carbons (ACs). Application to wastewaters and seawater. RSC Advances, 2021, 11, 31590-31600.	3.6	6
321	A new generation of visible-light-active photocatalystsâ€”The alkaline earth metal bismuthates: Syntheses, compositions, structures, and properties. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 50, 100501.	11.6	6
322	Separation of inorganic anions by unsuppresed ion chromatography. Analytica Chimica Acta, 1986, 188, 317-319.	5.4	5
323	Photocatalyzed mineralization of a trimethylated phenol in oxygenated aqueous titania. An alternative to microbial degradation. Catalysis Letters, 1995, 32, 227-233.	2.6	5
324	Successful Scission of a Recalcitrant Triazinic Ring. The Photoassisted Total Breakup of Cyanuric Acid in Ozonized TiO2 Aqueous Dispersions in the Presence of an Electron Acceptor (H2O2). Journal of Physical Chemistry C, 2008, 112, 18125-18133.	3.1	5

#	Article	IF	Citations
325	Sunlight Photo-Assisted TiO2-Based Pilot Plant Scale Remediation of (Simulated) Contaminated Aquatic Sites. Journal of Oleo Science, 2010, 59, 673-680.	1.4	5
326	Synthesis of TiO2 hollow particles with highly dispersed CaCO3 template particulates and their photoactivity toward a VOC pollutant. Journal of Sol-Gel Science and Technology, 2016, 78, 373-381.	2.4	5
327	Advanced diffuse reflectance spectroscopy for studies of photochromic/photoactive solids. Journal of Physics Condensed Matter, 2019, 31, 424001.	1.8	5
328	Microwave-Driven In-liquid Plasma in Chemical and Environmental Applications. III. Examination of Optimum Microwave Pulse Conditions for Prolongation of Electrode Lifetime, and Application to Dye-Contaminated Wastewater. Plasma Chemistry and Plasma Processing, 2019, 39, 51-62.	2.4	5
329	UV-induced defect formation in cubic ZrO2. Optical demonstration of Y, Yb and Er dopants interacting with photocarriers. Chemical Physics Letters, 2020, 742, 137136.	2.6	5
330	Kinetic studies of the oxidative photosubstitution reaction in the charge transfer photochemistry of Os(OEP)[P(OMe)3]2 (OEP â‰¡ octaethylporphine) in hexane-halocarbon mixtures. Journal of Photochemistry and Photobiology, 1984, 27, 287-300.	0.6	4
331	6. Titanium. Coordination Chemistry Reviews, 1986, 73, 175-279.	18.8	4
332	Investigation of the Promoted Degradation Mechanism of 1,4-Doxane by Using Novel Microwave-assisted Photocatalytic Method. Journal of the Japan Society of Colour Material, 2009, 82, 51-55.	0.1	4
333	Facile preparation of N-doped TiO2 at ambient temperature and pressure under UV light with 4-nitrophenol as the nitrogen source and its photocatalytic activities. Photochemical and Photobiological Sciences, 2016, 15, 1061-1070.	2.9	4
334	Optical Properties of Various Strontium Bismuthates: Luminescence and UVâ€induced Photocoloration. ChemPhotoChem, 2020, 4, 5209-5222.	3.0	4
335	Development of aÂHg-free UV light source incorporating a Kr/Br2 gas, and its application for wastewater treatments. Photochemical and Photobiological Sciences, 2021, 20, 101-111.	2.9	4
336	Search for the Microwave Nonthermal Effect in Microwave Chemistry: Synthesis of the Heptyl Butanoate Ester with Microwave Selective Heating of a Sulfonated Activated Carbon Catalyst. Catalysts, 2021, 11, 466.	3.5	4
337	Photocatalytic Effect of Various Semiconductors on the Photooxidation of Surfactants. Journal of Japan Oil Chemists Society, 1995, 44, 121-126.	0.1	4
338	]Kinetics and mechanisms of intermolecular ligand exchange. Journal of Organometallic Chemistry, 1977, 127, 289-298.	1.8	3
339	Selforganization and silver halide photolysis. Supramolecular Chemistry, 1995, 5, 15-20.	1.2	3
340	Photooxidative mineralization of microorganisms-produced glycolipid biosurfactants by a titania-mediated advanced oxidation process. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 209, 147-152.	3.9	3
341	CHAPTER 9. Interplay Between Physical and Chemical Events in Photoprocesses in Heterogeneous Systems. RSC Energy and Environment Series, 2016, , 218-244.	0.5	3
342	Photocatalytic Degradation of Surfactants. XX. Photooxidation of Sodium Butylnaphthalenesulfonates. Journal of Oleo Science, 2003, 52, 245-253.	1.4	3

#	Article	IF	Citations
343	Development of a microwave-discharge light-emitting diode (MDLED): a novel UV source for the UV-driven microwave-assisted TiO2 photocatalytic treatment of contaminated wastewaters. Photochemical and Photobiological Sciences, 2022, 21, 659-665.	2.9	3
344	Evidence for five-coordination in titanium(IV) complexes. A nuclear magnetic resonance investigation. Canadian Journal of Chemistry, 1978, 56, 316-319.	1.1	2
345	The chlorosilane-mediated dimerization of pentane-2,4-diones: a direct route to pyrans. Inorganica Chimica Acta, 1984, 89, 139-142.	2.4	2
346	Chemical reaction networks as a model to describe UVC- and radiolytically-induced reactions of simple compounds. Photochemical and Photobiological Sciences, 2012, 11, 835-842.	2.9	2
347	Photoinduced Radical Processes on the Spinel (MgAl2O4) Surface Involving Methane, Ammonia, and Methane/Ammonia. Langmuir, 2012, 28, 7368-7373.	3.5	2
348	Photophysics of color centers in visible-light-active rutile titania. Evidence of the photoformation and trapping of charge carriers from advanced diffuse reflectance spectroscopy and mass spectrometry. Catalysis Today, 2020, 340, 58-69.	4.4	2
349	Separation and Recombination of Photocarriers from Color Centers and Optically Silent Trap States from 100 to 450 K: The Halide Double Photochromic Perovskite Cs₂AgBiBr₆. ACS Applied Materials & Interfaces, 2021, 13, 25513-25522.	8.0	2
350	Photodegradation of Surfactants XVII Photo-oxidation Processes in Amphoteric Surfactants Catalyzed by Irradiated TiO2 Suspensions. Journal of Advanced Oxidation Technologies, 1996, 1, .	0.5	1
351	Microwave Discharge Electrodeless Lamps (MDEL). V. Microwave-assisted Photolytic Disinfection ofBacillus Subtilisin Simulated Electroplating Wash Wastewaters. Journal of Microwave Power and Electromagnetic Energy, 2010, 44, 81-87.	0.8	1
352	A novel phased array antenna system for microwave-assisted organic syntheses under waveguideless and applicatorless setup conditions. RSC Advances, 2016, 6, 113899-113902.	3.6	1
353	Microwave-/UV-assisted Enhancement of the Wettability of Photoactive TiO₂ Substrates Coated on an Inactive Ti/i-TiO₂ Base. Journal of Oleo Science, 2019, 68, 967-975.	1.4	1
354	Enhanced Degradation of Organic Pollutants with Microwave-induced Plasma-in-liquid (MPL): Case of Flame Retardant Tetrabromobisphenol-A in Alkaline Aqueous Media. Journal of Oleo Science, 2020, 69, 261-269.	1.4	1
355	Synthesis of Recyclable Magnetic Cellulose Nanofibers from Ionic Liquids for Practical Applications in Separation Science. Journal of Oleo Science, 2021, 70, 737-743.	1.4	1
356	Detoxification and Desilvering of Photographic Processing Effluents by an Alternative Technology: Photocatalysis at Semiconductor/Solution Interfaces. Journal of Advanced Oxidation Technologies, 1996, 1, .	0.5	1
357	Correction. Dipole Moments and Electric Field Effects on the Proton Chemical Shifts of Halo(acetylacetonato) Complexes of Group IV Metals. Inorganic Chemistry, 1970, 9, 2805-2805.	4.0	0
358	Behavior of the 4T2 excited state of Cr(III) polypyridyl complexes. Journal of Photochemistry and Photobiology, 1981, 17, 169-170.	0.6	0
359	Polarized absorption spectra and polarized Raman spectra of single crystals of trans(Cl2)-[CoCl2(NH3) (H2O)4â˜]Cl complexes (n= 2, 3, 4). Chemical Physics Letters, 2008, 450, 404-407.	2.6	0
360	A novel green chemistry gelation method for polyvinyl pyrrolidone (PVP) and dimethylpolysiloxane (silicone): microwave-induced in-liquid-plasma. RSC Advances, 2021, 11, 24326-24335.	3.6	0

#	Article	IF	Citations
361	Frontispiece: Photoluminescent Carbon Quantum Dots: Synthetic Approaches and Photophysical Properties. Chemistry - A European Journal, 2021, 27, .	3.3	0
362	Uptake of nanoparticles from sunscreen physical filters into cells arising from increased environmental microwave radiation: increased potential risk of the use of sunscreens to human health. Photochemical and Photobiological Sciences, 0, , .	2.9	0