

Nick Serpone

List of Publications by Year in descending order

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362
papers

25,961
citations

6613

79
h-index

8167

148
g-index

368
all docs

368
docs citations

368
times ranked

19739
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a microwave-discharge light-emitting diode (MDLED): a novel UV source for the UV-driven microwave-assisted TiO ₂ photocatalytic treatment of contaminated wastewaters. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 659-665.	2.9	3
2	A new generation of visible-light-active photocatalysts—The alkaline earth metal bismuthates: Syntheses, compositions, structures, and properties. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 50, 100501.	11.6	6
3	Low-temperature microwave-driven thermochemical generation of hydrogen from steam reforming of alcohols over magnetite. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 23520-23529.	7.1	7
4	Microwave-driven hydrogen production (MDHP) from water and activated carbons (ACs). Application to wastewaters and seawater. <i>RSC Advances</i> , 2021, 11, 31590-31600.	3.6	6
5	A novel green chemistry gelation method for polyvinyl pyrrolidone (PVP) and dimethylpolysiloxane (silicone): microwave-induced in-liquid-plasma. <i>RSC Advances</i> , 2021, 11, 24326-24335.	3.6	0
6	Development of a Hg-free UV light source incorporating a Kr/Br ₂ gas, and its application for wastewater treatments. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 101-111.	2.9	4
7	Sunscreens and their usefulness: have we made any progress in the last two decades?. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 189-244.	2.9	31
8	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. <i>Catalysts</i> , 2021, 11, 466.	3.5	4
9	Separation and Recombination of Photocarriers from Color Centers and Optically Silent Trap States from 100 to 450 K: The Halide Double Photochromic Perovskite Cs ₂ AgBiBr ₆ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25513-25522.	8.0	2
10	Photoluminescent Carbon Quantum Dots: Synthetic Approaches and Photophysical Properties. <i>Chemistry - A European Journal</i> , 2021, 27, 9466-9481.	3.3	25
11	Luminescent monodispersed carbon quantum dots by a microwave solvothermal method toward bioimaging applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 415, 113310.	3.9	10
12	Frontispiece: Photoluminescent Carbon Quantum Dots: Synthetic Approaches and Photophysical Properties. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0
13	Revisiting the BaBiO ₃ semiconductor photocatalyst: synthesis, characterization, electronic structure, and photocatalytic activity. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1147-1160.	2.9	13
14	Synthesis of Recyclable Magnetic Cellulose Nanofibers from Ionic Liquids for Practical Applications in Separation Science. <i>Journal of Oleo Science</i> , 2021, 70, 737-743.	1.4	1
15	Can the photocatalyst TiO ₂ be incorporated into a wastewater treatment method? Background and prospects. <i>Catalysis Today</i> , 2020, 340, 334-346.	4.4	106
16	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. <i>Catalysis Today</i> , 2020, 340, 58-69.	4.4	2
17	Solid-state synthesis, characterization, UV-induced coloration and photocatalytic activity — The Sr ₆ Bi ₂ O ₁₁ , Sr ₃ Bi ₂ O ₆ and Sr ₂ Bi ₂ O ₅ bismuthates. <i>Catalysis Today</i> , 2020, 340, 70-85.	4.4	25
18	Phenomenological Rule from Correlations of Conduction/Valence Band Energies and Bandgap Energies in Semiconductor Photocatalysts: Calcium Bismuthates versus Strontium Bismuthates. <i>ChemCatChem</i> , 2020, 12, 1551-1555.	3.7	12

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19	Application of Variable Frequency Microwaves in Microwave-Assisted Chemistry: Relevance and Suppression of Arc Discharges on Conductive Catalysts. <i>Catalysts</i> , 2020, 10, 777.	3.5	10
20	Optical Properties of Various Strontium Bismuthates: Luminescence and UV-Induced Photocoloration. <i>ChemPhotoChem</i> , 2020, 4, 5209-5222.	3.0	4
21	Materials synthesis, characterization and DFT calculations of the visible-light-active perovskite-like barium bismuthate $\text{Ba}_{1.264(4)}\text{Bi}_{1.971(4)}\text{O}_4$ photocatalyst. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3509-3519.	5.5	12
22	Enhanced Degradation of Organic Pollutants with Microwave-induced Plasma-in-liquid (MPL): Case of Flame Retardant Tetrabromobisphenol-A in Alkaline Aqueous Media. <i>Journal of Oleo Science</i> , 2020, 69, 261-269.	1.4	1
23	UV-induced defect formation in cubic ZrO_2 . Optical demonstration of Y, Yb and Er dopants interacting with photocarriers. <i>Chemical Physics Letters</i> , 2020, 742, 137136.	2.6	5
24	Microwave-/UV-assisted Enhancement of the Wettability of Photoactive TiO_2 Substrates Coated on an Inactive Ti/TiO_2 Base. <i>Journal of Oleo Science</i> , 2019, 68, 967-975.	1.4	1
25	Development of a Hg-free UV light source and its performance in photolytic and photocatalytic applications. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 328-335.	2.9	9
26	Advanced diffuse reflectance spectroscopy for studies of photochromic/photoactive solids. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 424001.	1.8	5
27	Considerations of Trends in Heterogeneous Photocatalysis. Correlations between Conduction and Valence Band Energies with Bandgap Energies of Various Photocatalysts. <i>ChemCatChem</i> , 2019, 11, 3534-3541.	3.7	19
28	Microwave Flow Chemistry as a Methodology in Organic Syntheses, Enzymatic Reactions, and Nanoparticle Syntheses. <i>Chemical Record</i> , 2019, 19, 118-139.	5.8	31
29	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. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 51-62.	2.4	5
30	The electromagnetic wave energy effect(s) in microwave-assisted organic syntheses (MAOS). <i>Scientific Reports</i> , 2018, 8, 5151.	3.3	35
31	In-liquid Plasma. A stable light source for advanced oxidation processes in environmental remediation. <i>Radiation Physics and Chemistry</i> , 2018, 147, 53-58.	2.8	12
32	Microwave Chemical and Materials Processing. , 2018, , .		57
33	Additional Specific Channel of Photoactivation of Solid Semiconductors. A Revisit of the Thermo-/Photo-Stimulated Bleaching of Photoinduced Ti^{3+} Color Centers in Visible-Light-Active Photochromic Rutile Titania. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13294-13303.	3.1	8
34	UV-induced formation of color centers in dispersed TiO_2 particles: Effect of thermal treatment, metal (Al) doping, and adsorption of molecules. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 354, 33-46.	3.9	13
35	Heterogeneous Photocatalysis and Prospects of TiO_2 -Based Photocatalytic DeNO _x ing the Atmospheric Environment. <i>Catalysts</i> , 2018, 8, 553.	3.5	51
36	Light-driven advanced oxidation processes in the disposal of emerging pharmaceutical contaminants in aqueous media: A brief review. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 6, 18-33.	5.9	67

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37	Calcium Bismuthate Nanoparticulates with Orthorhombic and Rhombohedral Crystalline Lattices: Effects of Composition and Structure on Photoactivity. <i>ChemistrySelect</i> , 2017, 2, 9851-9863.	1.5	13
38	In-liquid plasma: a novel tool in the fabrication of nanomaterials and in the treatment of wastewaters. <i>RSC Advances</i> , 2017, 7, 47196-47218.	3.6	97
39	Is Selective Heating of the Sulfonic Acid Catalyst AC-SO ₃ H by Microwave Radiation Crucial in the Acid Hydrolysis of Cellulose to Glucose in Aqueous Media?. <i>Catalysts</i> , 2017, 7, 231.	3.5	10
40	Water Will Be the Coal of the Future—The Untamed Dream of Jules Verne for a Solar Fuel. <i>Molecules</i> , 2016, 21, 1638.	3.8	20
41	Energy Savings through Microwave Selective Heating of Pd/AC Catalyst Particulates in a Fixed-Bed Reactor. <i>Chemical Engineering and Technology</i> , 2016, 39, 1575-1577.	1.5	10
42	A novel phased array antenna system for microwave-assisted organic syntheses under waveguideless and applicatorless setup conditions. <i>RSC Advances</i> , 2016, 6, 113899-113902.	3.6	1
43	Microwave Discharge Electrodeless Lamps. Part VIII: Continuous On-Site Solar Energy Remediation of Contaminated Water. <i>Chemical Engineering and Technology</i> , 2016, 39, 102-107.	1.5	7
44	Effect of microwave radiation on the activity of catalase. decomposition of hydrogen peroxide under microwave and conventional heating. <i>RSC Advances</i> , 2016, 6, 48237-48244.	3.6	20
45	Why do Hydrogen and Oxygen Yields from Semiconductor-Based Photocatalyzed Water Splitting Remain Disappointingly Low? Intrinsic and Extrinsic Factors Impacting Surface Redox Reactions. <i>ACS Energy Letters</i> , 2016, 1, 931-948.	17.4	119
46	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. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12029-12037.	7.1	51
47	In situ study of photo- and thermo-induced color centers in photochromic rutile TiO ₂ in the temperature range 90–720 K. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1289-1298.	2.9	17
48	Facile preparation of N-doped TiO ₂ at ambient temperature and pressure under UV light with 4-nitrophenol as the nitrogen source and its photocatalytic activities. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1061-1070.	2.9	4
49	Synthesis of TiO ₂ hollow particles with highly dispersed CaCO ₃ template particulates and their photoactivity toward a VOC pollutant. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 78, 373-381.	2.4	5
50	CHAPTER 9. Interplay Between Physical and Chemical Events in Photoprocesses in Heterogeneous Systems. <i>RSC Energy and Environment Series</i> , 2016, , 218-244.	0.5	3
51	Epitaxial Bi ₂ FeCrO ₆ Multiferroic Thin Film as a New Visible Light Absorbing Photocathode Material. <i>Small</i> , 2015, 11, 4018-4026.	10.0	73
52	In situ picosecond transient diffuse reflectance spectroscopy of opaque TiO ₂ systems under microwave irradiation and influence of oxygen vacancies on the UV-driven/microwave-assisted TiO ₂ photocatalysis. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5958-5969.	5.5	30
53	Luminescence of photoactivated pristine and Cr-doped MgAl ₂ O ₄ spinel. <i>Chemical Physics Letters</i> , 2015, 626, 6-10.	2.6	10
54	Enzymatic proteolysis of peptide bonds by a metallo-endoproteinase under precise temperature control with 5.8-GHz microwave radiation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 116, 52-59.	1.8	12

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55	Enhanced Ga ₂ O ₃ -photocatalyzed and photochemical degradation of the Fipronil insecticide by UVC irradiation in mixed aqueous/organic media under an inert atmosphere. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 919-928.	2.9	15
56	Microwave-assisted organic syntheses: microwave effect on intramolecular reactions of the Claisen rearrangement of allylphenyl ether and 1-allyloxy-4-methoxybenzene. <i>RSC Advances</i> , 2015, 5, 90272-90280.	3.6	13
57	Microwave discharge electrodeless lamps (MDELs). Part IX. A novel MDEL photoreactor for the photolytic and chemical oxidation treatment of contaminated wastewaters. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 2187-2194.	2.9	12
58	Coupled Microwave/Photoassisted Methods for Environmental Remediation. <i>Molecules</i> , 2014, 19, 18102-18128.	3.8	24
59	Real-Time <i>in Situ</i> Monitoring of Optical Absorption Changes in Visible-Light-Active TiO ₂ under Light Irradiation and Temperature-Programmed Annealing. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27583-27593.	3.1	13
60	Role of microwaves in heterogeneous catalytic systems. <i>Catalysis Science and Technology</i> , 2014, 4, 1197.	4.1	136
61	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. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14941-14947.	3.7	41
62	Photocatalytic generation of solar fuels from the reduction of H ₂ O and CO ₂ : a look at the patent literature. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19790.	2.8	100
63	On the influence of the microwaves' thermal and non-thermal effects in titania photoassisted reactions. <i>Catalysis Today</i> , 2014, 224, 225-235.	4.4	33
64	Remediation of aquatic environments contaminated with hydrophilic and lipophilic pharmaceuticals by TiO ₂ -photoassisted ozonation. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 84-89.	6.7	11
65	Photochemical and Ga ₂ O ₃ -photoassisted decomposition of the insecticide Fipronil in aqueous media upon UVC radiation. <i>New Journal of Chemistry</i> , 2014, 38, 3939-3952.	2.8	12
66	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. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 69, 52-56.	3.6	43
67	A hybrid microreactor/microwave high-pressure flow system of a novel concept design and its application to the synthesis of silver nanoparticles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 73, 59-66.	3.6	47
68	Photoassisted defluorination of fluorinated substrates and pharmaceuticals by a wide bandgap metal oxide in aqueous media. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 751-759.	2.9	14
69	Thermo- and Photo-stimulated Effects on the Optical Properties of Rutile Titania Ceramic Layers Formed on Titanium Substrates. <i>Chemistry of Materials</i> , 2013, 25, 170-177.	6.7	38
70	Influence of lattice distortion and oxygen vacancies on the UV-driven/microwave-assisted TiO ₂ photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 265, 20-28.	3.9	24
71	Visible-NIR Light Absorption of Titania Thermochemically Fabricated from Titanium and its Alloys; UV- and Visible-Light-Induced Photochromism of Yellow Titania. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25852-25864.	3.1	10
72	Unusual Effect of the Magnetic Field Component of the Microwave Radiation on Aqueous Electrolyte Solutions. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2012, 46, 215-228.	0.8	48

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73	On the way to the creation of next generation photoactive materials. <i>Environmental Science and Pollution Research</i> , 2012, 19, 3666-3675.	5.3	60
74	Chemical reaction networks as a model to describe UVC- and radiolytically-induced reactions of simple compounds. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 835-842.	2.9	2
75	Photoinduced Radical Processes on the Spinel (MgAl ₂ O ₄) Surface Involving Methane, Ammonia, and Methane/Ammonia. <i>Langmuir</i> , 2012, 28, 7368-7373.	3.5	2
76	Semiconductor Photocatalysis – Past, Present, and Future Outlook. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 673-677.	4.6	579
77	On the genesis of heterogeneous photocatalysis: a brief historical perspective in the period 1910 to the mid-1980s. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1121-1150.	2.9	88
78	Organic syntheses by microwave selective heating of novel metal/CMC catalysts – The Suzuki–Miyaura coupling reaction in toluene and the dehydrogenation of tetralin in solvent-free media. <i>Journal of Catalysis</i> , 2012, 289, 266-271.	6.2	19
79	Microwave frequency effect in the formation of Au nanocolloids in polar and non-polar solvents. <i>Nanoscale</i> , 2011, 3, 1697.	5.6	36
80	Photooxidation of the antidepressant drug Fluoxetine (Prozac®) in aqueous media by hybrid catalytic/ozonation processes. <i>Water Research</i> , 2011, 45, 2782-2794.	11.3	63
81	Microwave Frequency Effect(s) in Organic Chemistry. <i>Mini-Reviews in Organic Chemistry</i> , 2011, 8, 299-305.	1.3	17
82	Influence of Humidity and of the Electric and Magnetic Microwave Radiation Fields on the Remediation of TCE-contaminated Natural Sandy Soils. <i>Journal of Oleo Science</i> , 2011, 60, 375-383.	1.4	7
83	Microwave discharge electrodeless lamps (MDELs). VI. Performance evaluation of a novel microwave discharge granulated electrodeless lamp (MDGEL) – Photoassisted defluorination of perfluoroalkoxy acids in aqueous media. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 222, 97-104.	3.9	20
84	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. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23030-23035.	3.1	142
85	Molecular dynamics simulations of adsorption of hydrophobic 1,2,4-trichlorobenzene (TCB) on hydrophilic TiO ₂ in surfactant emulsions and experimental process efficiencies of photo-degradation and -dechlorination. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 141-146.	3.9	13
86	Characteristics of microwaves on second generation nitrogen-doped TiO ₂ nanoparticles and their effect on photoassisted processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 191-200.	3.9	26
87	Effect of microwave radiation on the (Raman) lattice phonons in selected titanium dioxide solid specimens. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 220, 94-101.	3.9	13
88	A novel liquid plasma AOP device integrating microwaves and ultrasounds and its evaluation in defluorinating perfluorooctanoic acid in aqueous media. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 938-942.	8.2	36
89	Enhanced remediation of simulated wastewaters contaminated with 2-chlorophenol and other aquatic pollutants by TiO ₂ -photoassisted ozonation in a sunlight-driven pilot-plant scale photoreactor. <i>Solar Energy</i> , 2011, 85, 938-944.	6.1	37
90	Glossary of terms used in photocatalysis and radiation catalysis (IUPAC Recommendations 2011). <i>Pure and Applied Chemistry</i> , 2011, 83, 931-1014.	1.9	333

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91	Microwave Discharge Electrodeless Lamps (MDEL). V. Microwave-assisted Photolytic Disinfection of <i>Bacillus Subtilis</i> Simulated Electroplating Wash Wastewaters. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2010, 44, 81-87.	0.8	1
92	Microwave specific effects in organic synthesis: A proposed model from the solvent-free synthesis of monoglycerylcetyldimethylammonium chloride. <i>Chemical Physics Letters</i> , 2010, 491, 244-247.	2.6	9
93	Photooxidative mineralization of microorganisms-produced glycolipid biosurfactants by a titania-mediated advanced oxidation process. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 147-152.	3.9	3
94	Photo-induced oxidative synergistic degradation of mixed anionic/cationic surfactant systems in aqueous dispersions. A detailed study of the DBS/HTAB system. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 485-489.	20.2	21
95	Sunlight Photo-Assisted TiO ₂ -Based Pilot Plant Scale Remediation of (Simulated) Contaminated Aquatic Sites. <i>Journal of Oleo Science</i> , 2010, 59, 673-680.	1.4	5
96	Second Generation Visible-Light-Active Photocatalysts: Preparation, Optical Properties, and Consequences of Dopants on the Band Gap Energy of TiO ₂ . <i>Nanostructure Science and Technology</i> , 2010, , 35-111.	0.1	9
97	A Novel Dewar-Like Reactor for Maintaining Constant Heat and Enhancing Product Yields during Microwave-Assisted Organic Syntheses. <i>Organic Process Research and Development</i> , 2010, 14, 1453-1456.	2.7	20
98	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. <i>Nanoscale</i> , 2010, 2, 1441.	5.6	92
99	Influence of alcoholic and carbonyl functions in microwave-assisted and photo-assisted oxidative mineralization. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 284-287.	20.2	14
100	Remediation of simulated aquatic sites contaminated with recalcitrant substrates by TiO ₂ /ozonation under natural sunlight. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 242-246.	20.2	34
101	Characterization of microwave effects on metal-oxide materials: Zinc oxide and titanium dioxide. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 362-367.	20.2	49
102	Microwave frequency effects on the photoactivity of TiO ₂ : Dielectric properties and the degradation of 4-chlorophenol, bisphenol A and methylene blue. <i>Chemical Physics Letters</i> , 2009, 470, 304-307.	2.6	29
103	On the Origin of the Spectral Bands in the Visible Absorption Spectra of Visible-Light-Active TiO ₂ Specimens Analysis and Assignments. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15110-15123.	3.1	210
104	Microwave-Specific Effects in Various TiO ₂ Specimens. Dielectric Properties and Degradation of 4-Chlorophenol. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5649-5657.	3.1	29
105	Novel designs of microwave discharge electrodeless lamps (MDEL) in photochemical applications. Use in advanced oxidation processes. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1087-1104.	2.9	33
106	Microwave discharge electrodeless lamps (MDEL) Part IV. Novel self-ignition system incorporating metallic microwave condensing cones to activate MDELs in photochemical reactions. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1618-1625.	2.9	13
107	Investigation of the Promoted Degradation Mechanism of 1,4-Dioxane by Using Novel Microwave-assisted Photocatalytic Method. <i>Journal of the Japan Society of Colour Material</i> , 2009, 82, 51-55.	0.1	4
108	A FT-IR (DRIFT) study of the influence of halogen substituents on the TiO ₂ -assisted photooxidation of phenol and p-halophenols under weak room light irradiance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 189-199.	3.9	18

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109	Investigation of factors that influence TiO ₂ photoassisted degradations under simultaneous illumination by UV and microwave radiation fields. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 196, 159-164.	3.9	22
110	Photoassisted dehalogenation and mineralization of chloro/fluoro-benzoic acid derivatives in aqueous media. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 197, 115-123.	3.9	6
111	Photoassisted mineralization of aromatic and aliphatic N-heterocycles in aqueous titanium dioxide suspensions and the fate of the nitrogen heteroatoms. <i>Applied Catalysis B: Environmental</i> , 2008, 78, 139-150.	20.2	13
112	Photodegradation of tetrahalobisphenol-A (X = Cl, Br) flame retardants and delineation of factors affecting the process. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 797-802.	20.2	53
113	Polarized absorption spectra and polarized Raman spectra of single crystals of trans(Cl ₂)-[CoCl ₂ (NH ₃)(H ₂ O) ₄] ⁺ Cl complexes (n= 2, 3, 4). <i>Chemical Physics Letters</i> , 2008, 450, 404-407.	2.6	0
114	Wavelength-dependent photostimulated adsorption of molecular O ₂ and H ₂ on second generation titania photocatalysts: The case of the visible-light-active N-doped TiO ₂ system. <i>Chemical Physics Letters</i> , 2008, 454, 279-283.	2.6	34
115	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. <i>Organic Process Research and Development</i> , 2008, 12, 1089-1093.	2.7	45
116	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. <i>New Journal of Chemistry</i> , 2008, 32, 2257.	2.8	33
117	Microwave discharge electrodeless lamps (MDEL). III. A novel tungsten-triggered MDEL device emitting VUV and UVC radiation for use in wastewater treatment. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 303-310.	2.9	19
118	Successful Scission of a Recalcitrant Triazinic Ring. The Photoassisted Total Breakup of Cyanuric Acid in Ozonized TiO ₂ Aqueous Dispersions in the Presence of an Electron Acceptor (H ₂ O ₂). <i>Journal of Physical Chemistry C</i> , 2008, 112, 18125-18133.	3.1	5
119	Chemical Reactions with a Novel 5.8-GHz Microwave Apparatus. 1. Characterization of Properties of Common Solvents and Application in a Diels-Alder Organic Synthesis. <i>Organic Process Research and Development</i> , 2008, 12, 257-263.	2.7	42
120	Photoinduced Coloration and Photobleaching of Titanium Dioxide in TiO ₂ /Polymer Compositions upon UV- and Visible-Light Excitation of Color Centers' Absorption Bands: Direct Experimental Evidence Negating Band-Gap Narrowing in Anion-/Cation-Doped TiO ₂ s. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15277-15288.	3.1	55
121	Prebiotic chemistry: chemical evolution of organics on the primitive Earth under simulated prebiotic conditions. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 1210-1217.	2.9	15
122	Photoassisted Oxidation of the Recalcitrant Cyanuric Acid Substrate in Aqueous ZnO Suspensions. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18025-18032.	3.1	39
123	Inorganic and organic UV filters: Their role and efficacy in sunscreens and sun care products. <i>Inorganica Chimica Acta</i> , 2007, 360, 794-802.	2.4	528
124	The microwave-/photo-assisted degradation of bisphenol-A in aqueous TiO ₂ dispersions revisited. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 188, 1-4.	3.9	52
125	A novel environmental risk-free microwave discharge electrodeless lamp (MDEL) in advanced oxidation processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 355-363.	3.9	46
126	Microwave-enhanced bromination of a terminal alkyne in short time at ambient temperature: Synthesis of phenylacetylene bromide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 374-379.	3.9	16

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