Michael OelgemÃ¶ller

List of Publications by Year
in descending order

127 papers	5,762 citations	76326 40 h-index	82547 72 g-index
131 all docs	131 docs citations	131 times ranked	5574 citing authors

#	Article	IF	Citations
1	Advanced oxidation process-mediated removal of pharmaceuticals from water: A review. Journal of Environmental Management, 2018, 219, 189-207.	7.8	827
2	Titanium dioxide photocatalysis for pharmaceutical wastewater treatment. Environmental Chemistry Letters, 2014, 12, 27-47.	16.2	287
3	Micro-photochemistry: photochemistry in microstructured reactors. The new photochemistry of the future?. Photochemical and Photobiological Sciences, 2008, 7, 1313-1322.	2.9	230
4	Solar Photochemical Synthesis: From the Beginnings of Organic Photochemistry to the Solar Manufacturing of Commodity Chemicals. Chemical Reviews, 2016, 116, 9664-9682.	47.7	200
5	Photostability of sunscreens. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2012, 13, 91-110.	11.6	186
6	Recent Advances in Microflow Photochemistry. Molecules, 2011, 16, 7522-7550.	3.8	171
7	Highlights of Photochemical Reactions in Microflow Reactors. Chemical Engineering and Technology, 2012, 35, 1144-1152.	1.5	169
8	Titanium dioxide/zeolite integrated photocatalytic adsorbents for the degradation of amoxicillin. Applied Catalysis B: Environmental, 2015, 166-167, 45-55.	20.2	161
9	Green photochemistry: Production of fine chemicals with sunlight. Pure and Applied Chemistry, 2007, 79, 1939-1947.	1.9	154
10	TiO2 photocatalysis of naproxen: Effect of the water matrix, anions and diclofenac on degradation rates. Chemosphere, 2015, 139, 579-588.	8.2	113
11	Continuous-flow photochemistry: A need for chemical engineering. Chemical Engineering and Processing: Process Intensification, 2016, 104, 120-132.	3.6	109
12	Parallel Microflow Photochemistry: Process Optimization, Scale-up, and Library Synthesis. Organic Letters, 2012, 14, 4342-4345.	4.6	88
13	Photoinduced electron transfer chemistry of phthalimdes: an efficient tool for Cî—¸C-bond formation. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2002, 3, 109-127.	11.6	83
14	Green photochemistry: solar-chemical synthesis of Juglone with medium concentrated sunlight. Green Chemistry, 2006, 8, 831-834.	9.0	78
15	From Conventional to Microphotochemistry: Photodecarboxylation Reactions Involving Phthalimides. Organic Letters, 2010, 12, 5170-5173.	4.6	77
16	Green photochemistry: solar photooxygenations with medium concentrated sunlight. Green Chemistry, 2005, 7, 35-38.	9.0	75
17	Synthesis of Medium- and Large-Ring Compounds Initiated by Photochemical Decarboxylation of Ï‰-Phthalimidoalkanoates. Helvetica Chimica Acta, 1997, 80, 912-933.	1.6	73
18	Photocatalytic activity of a porphyrin/TiO2 composite in the degradation of pharmaceuticals. Applied Catalysis B: Environmental, 2012, 119-120, 156-165.	20.2	73

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19	Green photochemistry: the solar-chemical â€˜Photoâ€“Friedelâ€“Crafts acylationâ€™ of quinones. Green Chemistry, 2001, 3, 224-228.	9.0	71
20	Synthetic Applications of Photoinduced Electron Transfer Decarboxylation Reactions. Synlett, 1999, 1999, 1169-1178.	1.8	70
21	Studies in organic and physical photochemistry â€“ an interdisciplinary approach. Organic and Biomolecular Chemistry, 2016, 14, 7392-7442.	2.8	69
22	Photoinduced decarboxylation reactions. Green Chemistry, 1999, 1, 205-208.	9.0	66
23	The excimer radiation system: a powerful tool for preparative organic photochemistry. A technical note. Photochemical and Photobiological Sciences, 2003, 2, 450-451.	2.9	59
24	Studies on the Adsorption and Kinetics of Photodegradation of Pharmaceutical Compound, Indomethacin Using Novel Photocatalytic Adsorbents (IPCAs). Industrial & Engineering Chemistry Research, 2010, 49, 11302-11309.	3.7	59
25	The â€œPhoto-Friedelâ€“Crafts Acylationâ€•of 1,4-Naphthoquinones. European Journal of Organic Chemistry, 2002, 2002, 2465.	2.4	57
26	Time-Resolved Spectroscopy of Sulfur- and Carboxy-SubstitutedN-Alkylphthalimides. Chemistry - A European Journal, 2001, 7, 1530-1538.	3.3	54
27	Photodecarboxylation Study of Carboxy-Substituted N-Alkylphthalimides in Aqueous Solution:â€‰ Time Resolved UVâ€“Vis Spectroscopy and Conductometry. Journal of Physical Chemistry A, 2002, 106, 1458-1464.	2.5	54
28	Photooxygenations of 1-naphthols: an environmentally friendly access to 1,4-naphthoquinones. Tetrahedron, 2006, 62, 1467-1473.	1.9	54
29	A Photochemical Route for Efficient Cyclopeptide Formation with a Minimum of Protection and Activation Chemistry. Journal of the American Chemical Society, 2002, 124, 10972-10973.	13.7	53
30	Photosensitized addition of isopropanol to furanones in a 365 nm UV-LED microchip. Photochemical and Photobiological Sciences, 2010, 9, 1601-1603.	2.9	50
31	Microphotochemistry: a reactor comparison study using the photosensitized addition of isopropanol to furanones as a model reaction. Photochemical and Photobiological Sciences, 2011, 10, 1399-1404.	2.9	49
32	On the adsorption/photodegradation of amoxicillin in aqueous solutions by an integrated photocatalytic adsorbent (IPCA): experimental studies and kinetics analysis. Photochemical and Photobiological Sciences, 2011, 10, 1014-1022.	2.9	48
33	Photooxygenations in a bubble column reactor. Green Chemistry, 2012, 14, 888.	9.0	47
34	Lead structures for applications in photodynamic therapy. Part 2: Synthetic studies for photo-triggered release systems of bioconjugate porphyrin photosensitizers. Tetrahedron, 2009, 65, 7064-7078.	1.9	46
35	Photodecarboxylative benzylations of phthalimide in pH 7 buffer: a simple access to 3-arylmethyleneisoindolin-1-ones. Tetrahedron Letters, 2010, 51, 4738-4741.	1.4	46
36	Photosensitized addition of isopropanol to furanones in a continuous-flow dual capillary microreactor. Tetrahedron Letters, 2011, 52, 278-280.	1.4	44

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37	Photodecarboxylative addition of carboxylates to phthalimides: a concise access to biologically active 3-(alkyl and aryl)methylene-1H-isoindolin-1-ones. Tetrahedron Letters, 2012, 53, 5573-5577.	1.4	44
38	Visible-light photosensitized oxidation of Î±-terpinene using novel silica-supported sensitizers: Photooxygenation vs. photodehydrogenation. Journal of Catalysis, 2013, 303, 164-174.	6.2	44
39	Synthesis of Juglone (5-Hydroxy-1,4-Naphthoquinone) in a Falling Film Microreactor. Journal of Flow Chemistry, 2012, 2, 52-55.	1.9	43
40	Synthesis of Cyclic Peptides by Photochemical Decarboxylation of N-Phthaloyl Peptides in Aqueous Solution. Helvetica Chimica Acta, 2002, 85, 4561-4578.	1.6	42
41	Photochemical Addition Reactions Involving Phthalimides. Heterocycles, 2005, 65, 2221.	0.7	40
42	Diastereoselective [2+2] Photocycloaddition of a Chiral Cyclohexenone with Ethylene in a Continuous Flow Microcapillary Reactor. Journal of Flow Chemistry, 2012, 2, 73-76.	1.9	38
43	Photolysis and TiO2-catalysed degradation of diclofenac in surface and drinking water using circulating batch photoreactors. Environmental Chemistry, 2014, 11, 51.	1.5	38
44	Cyclic trans-stilbenes: synthesis, structural and spectroscopic characterization, photophysical and photochemical properties. Perkin Transactions II RSC, 2002, , 1760-1771.	1.1	37
45	Synthesis of Sulfur-Containing Tricyclic Ring Systems by Means of Photoinduced Decarboxylative Cyclizations. European Journal of Organic Chemistry, 2001, 2001, 1831-1843.	2.4	36
46	Use of Caâ€“alginate as a novel support for TiO2 immobilization in methylene blue decolorisation. Water Science and Technology, 2009, 60, 1081-1087.	2.5	36
47	Green photochemistry: solarchemical synthesis of 5-amido-1,4-naphthoquinones. Green Chemistry, 2009, 11, 318.	9.0	36
48	Photodecarboxylative Addition of Carboxylates and Î±-Keto Carboxylates to Phthalimides. Synlett, 1999, 1999, 492-494.	1.8	35
49	Influence of Titanium Dioxide Particle Size on the Photostability of the Chemical UV-Filters Butyl Methoxy Dibenzoylmethane and Octocrylene in a Microemulsion. Cosmetics, 2014, 1, 128-139.	3.3	34
50	Solar photolysis versus TiO2-mediated solar photocatalysis: a kinetic study of the degradation of naproxen and diclofenac in various water matrices. Environmental Science and Pollution Research, 2016, 23, 17437-17448.	5.3	34
51	Synthetic photochemistry of naphthalimides and related compounds. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2010, 11, 210-244.	11.6	33
52	The Photodecarboxylative Addition of Carboxylates to Phthalimides: Scope and Limitations. Heterocycles, 2003, 59, 669.	0.7	32
53	Microphotochemistry: 4,4'-Dimethoxybenzophenone mediated photodecarboxylation reactions involving phthalimides. Beilstein Journal of Organic Chemistry, 2011, 7, 1055-1063.	2.2	32
54	Microflow photochemistryâ€”a reactor comparison study using the photochemical synthesis of terebic acid as a model reaction. Tetrahedron Letters, 2012, 53, 5578-5581.	1.4	32

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55	Visible-light photooxygenation of Î±-terpinene in a falling film microreactor. Catalysis Today, 2018, 308, 102-118.	4.4	32
56	Photodegradation of Famotidine by Integrated Photocatalytic Adsorbent (IPCA) and Kinetic Study. Catalysis Letters, 2011, 141, 300-308.	2.6	31
57	From 'Lab & Light on a Chip' to Parallel Microflow Photochemistry. Australian Journal of Chemistry, 2014, 67, 337.	0.9	31
58	UV-induced photocatalytic degradation of aqueous acetaminophen: the role of adsorption and reaction kinetics. Environmental Science and Pollution Research, 2015, 22, 2219-2230.	5.3	31
59	Photodecarboxylative benzylations of phthalimides. Tetrahedron Letters, 2009, 50, 6335-6338.	1.4	30
60	The effects of ultraviolet radiation and climate on oil toxicity to coral reef organisms â€“ A review. Science of the Total Environment, 2020, 720, 137486.	8.0	30
61	Wetting, Solubility and Chemical Characteristics of Plasma-Polymerized 1-Isopropyl-4-Methyl-1,4-Cyclohexadiene Thin Films. Coatings, 2014, 4, 527-552.	2.6	28
62	Photodecarboxylations in an Advanced Mesoâ€Scale Continuousâ€Flow Photoreactor. Chemical Engineering and Technology, 2016, 39, 81-87.	1.5	27
63	Photostability of plasma polymerized Î³-terpinene thin films for encapsulation of OPV. Scientific Reports, 2017, 7, 45599.	3.3	27
64	Structural, CV and IR Spectroscopic Evidences for Preorientation in PET-Active Phthalimido Carboxylic Acids. Organic Letters, 2001, 3, 1593-1596.	4.6	25
65	Photoacylations of 2-substituted 1,4-naphthoquinones: a concise access to biologically active quinonoid compounds. Tetrahedron Letters, 2006, 47, 1329-1332.	1.4	25
66	Photooxygenation in an advanced led-driven flow reactor module: Experimental investigations and modelling. Chemical Engineering and Processing: Process Intensification, 2018, 130, 214-228.	3.6	25
67	Photochemistry of MTM- and MTE-Esters of Ï‰-Phthalimido Carboxylic Acids:Â Macrocyclization versus Deprotection1. Journal of Organic Chemistry, 2000, 65, 9028-9032.	3.2	23
68	Green photochemistry: photo-Friedelâ€“Crafts acylations of 1,4-naphthoquinone in room temperature ionic liquids. Green Chemistry, 2009, 11, 1867.	9.0	22
69	Photodecarboxylative additions of N-protected Î±-amino acids to N-methylphthalimide. Tetrahedron Letters, 2010, 51, 3639-3641.	1.4	21
70	Microflow photochemistry: UVC-induced [2 + 2]-photoadditions to furanone in a microcapillary reactor. Beilstein Journal of Organic Chemistry, 2013, 9, 2015-2021.	2.2	21
71	Hydrogen bonding in phthalimido carboxylic acids: cyclic voltammetric study and correlation with photochemical reactivity. Part 2.1 Aliphatic and aromatic acidsElectronic supplementary information (ESI) available: X-ray crystallographic data and cyclic voltammograms. See http://www.rsc.org/suppdata/p2/b1/b105860f/. Perkin Transactions II RSC, 2002, , 676-686.	1.1	19
72	Synthesis, structural characterization and photoisomerization of cyclic stilbenes. Tetrahedron, 2012, 68, 4048-4056.	1.9	19

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73	Green Photochemical Processes and Technologies for Research & Development, Scaleâ€up and Chemical Production. Journal of the Chinese Chemical Society, 2014, 61, 743-748.	1.4	19
74	Oxidant or Catalyst for Oxidation? A Study of How Structure and Disorder Change the Selectivity for Direct versus Catalytic Oxidation Mediated by Manganese(III,IV) Oxides. Chemistry of Materials, 2018, 30, 8244-8256.	6.7	19
75	Butyl Methoxy Dibenzoylmethane. Profiles of Drug Substances, Excipients and Related Methodology, 2013, 38, 87-111.	8.0	18
76	Photodecarboxylative additions of phenoxyacetates to N-methylphthalimide. Tetrahedron Letters, 2009, 50, 6593-6596.	1.4	17
77	Green photochemistry: the use of microemulsions as green media in photooxygenation reactions. Green Chemistry, 2010, 12, 1544.	9.0	17
78	Photoinduced electron transfer cyclizations of aryl-linked phthalimides. Tetrahedron Letters, 2011, 52, 5029-5031.	1.4	17
79	Photoinduced Electron-Transfer Reactions with Quinolinic and Trimellitic Acid Imides:Â Experiments and Spin Density Calculations1. Journal of Organic Chemistry, 2000, 65, 7151-7157.	3.2	16
80	Photoacylation of Electron-Rich Quinones: An Application of the â€Photo-Friedel-Crafts Reactionâ€. Synthesis, 2001, 112, 1275.	2.3	16
81	Direct Photooxidation and Xanthene-Sensitized Oxidation of Naphthols: Quantum Yields and Mechanism. Journal of Physical Chemistry A, 2011, 115, 280-285.	2.5	16
82	Characterization and evaluation of Nafion HP JP as proton exchange membrane: transport properties, nanostructure, morphology, and cell performance. Journal of Solid State Electrochemistry, 2019, 23, 2639-2656.	2.5	16
83	Photodecarboxylative cyclizations of ï‰-phthalimido-ortho-phenoxy carboxylates. Tetrahedron Letters, 2005, 46, 3395-3398.	1.4	15
84	Sustainable water treatment in aquaculture - photolysis and photodynamic therapy for the inactivation ofVibriospecies. Aquaculture Research, 2017, 48, 2954-2962.	1.8	15
85	Immobilized Organic Photosensitizers with Versatile Reactivity for Various Visibleâ€Light Applications. Photochemistry and Photobiology, 2014, 90, 358-368.	2.5	13
86	The photodecarboxylative addition of carboxylates to phthalimides as a key-step in the synthesis of biologically active 3-arylmethylene-2,3-dihydro-1H-isoindolin-1-ones. Beilstein Journal of Organic Chemistry, 2017, 13, 2833-2841.	2.2	13
87	Sensitizer immobilization in photochemistry: evaluation of a novel green support. Journal of Chemical Technology and Biotechnology, 2009, 84, 1026-1030.	3.2	12
88	Recent Advances in Photodecarboxylations Involving Phthalimides. Australian Journal of Chemistry, 2018, 71, 634.	0.9	12
89	Photochemically induced radical reactions with furanones. Pure and Applied Chemistry, 2015, 87, 569-582.	1.9	11
90	Synthesis of a Macroheterocyclic Compound through Photodecarboxylation of Potassium Ï‰-Phthalimidoalkynoate. Heterocycles, 2001, 54, 1049.	0.7	10

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91	Synthesis of cycloalkynes via photochemical decarboxylation of Ï‰-phthalimidoalkynoates. Photochemical and Photobiological Sciences, 2004, 3, 311-316.	2.9	10
92	Unusual CD couplet pattern observed for the Ï€*â†n transition of enantiopure (Z)-8-methoxy-4-cyclooctenone: An experimental and theoretical study by electronic and vibrational circular dichroism spectroscopy and density functional theory calculation. Chirality, 2007, 19, 415-427.	2.6	10
93	Photodecarboxylative Benzylations of N-Methoxyphthalimide under Batch and Continuous-Flow Conditions. Australian Journal of Chemistry, 2015, 68, 1662.	0.9	10
94	Inorganic nanoparticles to overcome efficiency inhibitors of organic photovoltaics: An in-depth review. Renewable and Sustainable Energy Reviews, 2022, 166, 112661.	16.4	10
95	Heterogeneous Photocatalysis for Pharmaceutical Wastewater Treatment. Environmental Chemistry for A Sustainable World, 2013, , 69-133.	0.5	9
96	Microflow Photochemistryâ€"Photodecarboxylations in Microformats. Processes, 2014, 2, 158-166.	2.8	9
97	Sustainable plasma polymer encapsulation materials for organic solar cells. Journal of Materials Chemistry A, 2022, 10, 4683-4694.	10.3	9
98	Methyl Oleate Synthesis by TiO₂ Photocatalytic Esterification of Oleic Acid: Optimisation by Response Surface Quadratic Methodology, Reaction Kinetics and Thermodynamics. ChemPhotoChem, 2022, 6, .	3.0	9
99	Continuous Flow Photochemical and Thermal Multi-Step Synthesis of Bioactive 3-Arylmethylene-2,3-Dihydro-1H-Isoindolin-1-Ones. Molecules, 2019, 24, 4527.	3.8	8
100	Solar Photooxygenations for the Manufacturing of Fine Chemicalsâ€"Technologies and Applications. Molecules, 2021, 26, 1685.	3.8	8
101	Process Parameters in the Electrochemical Reduction of Carbon Dioxide to Ethylene. ChemBioEng Reviews, 2021, 8, 149-188.	4.4	7
102	Synthesis and Investigation of Flavanone Derivatives as Potential New Anti-Inflammatory Agents. Molecules, 2022, 27, 1781.	3.8	7
103	HPLC Method for the Simultaneous Determination of the UV-Filters Butyl Methoxy Dibenzoylmethane and Octocrylene in the Presence of Their Photodegradants. Chromatographia, 2013, 76, 1721-1727.	1.3	6
104	The Applied and Green Photochemistry research group at James Cook University in Townsville, Australia. Green Processing and Synthesis, 2014, 3, 163-165.	3.4	6
105	Capacity of cationic and anionic porphyrins to inactivate the potential aquaculture pathogen Vibrio campbellii. Aquaculture, 2017, 473, 228-236.	3.5	6
106	Photochemical synthesis of cyclic peptide models from phthalimido acetamides and phthaloyl dipeptide esters. Tetrahedron Letters, 2018, 59, 1427-1430.	1.4	6
107	Impact of ultraviolet radiation on the performance of polymer electrolyte membrane. Journal of Solid State Electrochemistry, 2020, 24, 1217-1229.	2.5	6
108	Decarboxylative Photoadditions of Heteroatom-substituted Carboxylates to Phthalimides. Synlett, 2000, 2000, 71-72.	1.8	5

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109	Photodecarboxylative Additions of Î±-Thioalkyl-Substituted Carboxylates to Alkyl Phenylglyoxylates. Synlett, 2010, 2010, 2240-2243.	1.8	5
110	Synthesis, molecular docking studies, and in vitro screening of barbiturates/thiobarbiturates as antibacterial and cholinesterase inhibitors. Medicinal Chemistry Research, 2014, 23, 2715-2726.	2.4	5
111	Corymbia citriodora: A Valuable Resource from Australian Flora for the Production of Fragrances, Repellents, and Bioactive Compounds. ChemBioEng Reviews, 2020, 7, 170-192.	4.4	5
112	Rapid Photochemical Reaction Studies under Continuous-flow Conditions in the Vapourtec UV-150 Reactor - A Technical Note. Current Organic Chemistry, 2019, 22, 2501-2508.	1.6	5
113	A SPE-LC-MS/MS Method for the Detection of Low Concentrations of Pharmaceuticals in Industrial Waste Streams. Analytical Letters, 2011, 44, 2808-2820.	1.8	4
114	New Trends in Photochemical Engineering and Technologies. Chemical Engineering and Technology, 2016, 39, 12-12.	1.5	3
115	Microflow Photochemistry - Acetone sensitized Addition of Isopropanol to (5R)-5-Menthyloxy-2-(5H)-furanone. Rapid Communication in Photoscience, 2013, 2, 68-71.	0.1	3
116	The Formation of Spiro-bridged Dimers of Cyclooctane-1,2-dicarbonyl Compounds via Domino Aldol-Cycloalkylation. Heterocycles, 2002, 57, 741.	0.7	2
117	An Improved Procedure for the Photoacylation of 1,4-Naphthoquinone with Aliphatic Aldehydes. Synlett, 2008, 2008, 3137-3140.	1.8	2
118	International Year of Light and Light-Based Technologies. Australian Journal of Chemistry, 2015, 68, 1619.	0.9	2
119	Sensitivity of live microalgal aquaculture feed to singlet oxygen-based photodynamic therapy. Journal of Applied Phycology, 2019, 31, 3593-3606.	2.8	2
120	Improving drinking water safety in recreational parks through policy changes and regulatory support in the Hunter New England region, NSW, Australia. Australasian Journal of Environmental Management, 2019, 26, 386-406.	1.1	2
121	Drinking water quality in regional Hunter New England, New South Wales, Australia, 2001-2015. Australian Journal of Water Resources, 2020, 24, 73-83.	2.7	2
122	Time-Resolved Spectroscopy of Sulfur- and Carboxy-Substituted N-Alkylphthalimides. Chemistry - A European Journal, 2001, 7, 1530-1538.	3.3	1
123	Continuous-Flow Photochemical Transformations of 1,4-Naphthoquinones and Phthalimides in a Concentrating Solar Trough Reactor. Australian Journal of Chemistry, 2020, 73, 1149.	0.9	1
124	Corrigendum to: Continuous-Flow Photochemical Transformations of 1,4-Naphthoquinones and Phthalimides in a Concentrating Solar Trough Reactor. Australian Journal of Chemistry, 2020, 73, 1301.	0.9	1
125	Crystal structure of (S)-2-(1,3-dioxo-1,3-dihydro-isoindol-2-yl)-propionic acid methyl ester, C8H4NO2[CH(CH3)COOCH3]. Zeitschrift Fur Kristallographie - New Crystal Structures, 1999, 214, 107-108.	0.3	0
126	Crystal structure of 3-hydroxy-3-(1-methylthioethyl)-2-methyl-2,3-dihydroisoindol-1-one, C8H4ONCH3(OH)[CH(CH3)SCH3]. Zeitschrift Fur Kristallographie - New Crystal Structures, 2000, 215, 37-38.	0.3	0

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127	Photochemical Addition Reactions Involving Phthalimides. ChemInform, 2005, 36, no.	0.0	0