VladimÃ-r V CÃ-rkva

List of Publications by Year
in descending order

56 papers	1,136 citations	331670 21 h-index	434195 31 g-index
59 all docs	59 docs citations	59 times ranked	945 citing authors

#	Article	IF	Citations
1	Notes on the photo-induced characteristics of transition metal-doped and undoped titanium dioxide thin films. Journal of Colloid and Interface Science, 2010, 348, 198-205.	9.4	69
2	Microwave photochemistry. Photoinitiated radical addition of tetrahydrofuran to perfluorohexylethene under microwave irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 123, 21-23.	3.9	60
3	Synthesis and Characterization of a Heliceneâ€Based Imidazolium Salt and Its Application in Organic Molecular Electronics. Chemistry - A European Journal, 2015, 21, 2343-2347.	3.3	58
4	Helicene-SPP-Based Chiral Plasmonic Hybrid Structure: Toward Direct Enantiomers SERS Discrimination. ACS Applied Materials & Interfaces, 2019, 11, 1555-1562.	8.0	54
5	The electrodeless discharge lamp: a prospective tool for photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 158, 1-5.	3.9	50
6	The electrodeless discharge lamp: a prospective tool for photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 140, 185-189.	3.9	48
7	Microwave photocatalysis III. Transition metal ionâ€doped TiO₂thin films on mercury electrodeless discharge lamps: preparation, characterization and their effect on the photocatalytic degradation of monoâ€chloroacetic acid and Rhodamine B. Journal of Chemical Technology and Biotechnology, 2009, 84, 1624-1630.	3.2	38
8	Microwave photocatalysis of mono-chloroacetic acid over nanoporous titanium(IV) oxide thin films using mercury electrodeless discharge lamps. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 198, 13-17.	3.9	36
9	2-Bromo[6]helicene as a Key Intermediate for [6]Helicene Functionalization. Journal of Organic Chemistry, 2018, 83, 3607-3616.	3.2	34
10	Internal dynamics in helical molecules studied by X-ray diffraction, NMR spectroscopy and DFT calculations. Physical Chemistry Chemical Physics, 2017, 19, 2900-2907.	2.8	33
11	Exploration of 9-bromo[7]helicene reactivity. Tetrahedron, 2013, 69, 6213-6218.	1.9	32
12	Highly selective synthesis of [(perfluoroalkyl) methyl] oxiranes (by the addition of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (iodope	1.7	30
13	Preparation and Physicochemical Properties of [6]Helicenes Fluorinated at Terminal Rings. Journal of Organic Chemistry, 2019, 84, 1980-1993.	3.2	30
14	The electrodeless discharge lamp: a prospective tool for photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 171, 51-57.	3.9	29
15	Radical-induced reaction of monoiodo- and diiodo-perfluoroalkanes with allyl acetate: telomer and rearranged products, mass-spectral distinguishing of regioisomers. Journal of Fluorine Chemistry, 1995, 74, 97-105.	1.7	28
16	Chemistry of [(perfluoroalkyl)methyl] oxiranes. Regioselectivity of ring opening with O-nucleophiles and the preparation of amphiphilic monomers. Journal of Fluorine Chemistry, 1997, 84, 53-61.	1.7	26
17	Microwave photochemistry IV: Preparation of the electrodeless discharge lamps for photochemical applications. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 179, 229-233.	3.9	26
18	Immobilization of helicene onto carbon substrates through electropolymerization of [7]helicenyl-thiophene. RSC Advances, 2014, 4, 46102-46105.	3.6	25

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19	Radical addition reactions of fluorinated species. Part 7. Highly selective two-step synthesis of 1-(polyfluoroalkyl)ethane-1,2-diols; regioselectivity of the additions of methylated 1,3-dioxolanes to perfluoroolefins. Journal of Fluorine Chemistry, 1999, 94, 141-156.	1.7	23
20	Microwave Photochemistry and Photocatalysis. Part 1: Principles and Overview. Current Organic Chemistry, 2011, 15, 248-264.	1.6	23
21	Radical additions to fluoro-olefins. photochemical mono-fluoroalkylation and sequential bis-fluoroalkylation of oxolane. Journal of Fluorine Chemistry, 1996, 80, 125-134.	1.7	21
22	Radical additions to fluoroolefins. Photochemical fluoroalkylation of alkanols and alkane diols with perfluoro vinyl ethers; photo-supported O-alkylation of butane-1,4-diol with hexafluoropropene. Journal of Fluorine Chemistry, 1996, 80, 135-144.	1.7	19
23	Microwave Photochemistry. Applications in Organic Synthesis. Mini-Reviews in Organic Chemistry, 2011, 8, 282-293.	1.3	19
24	Excited- and Ground-State Versions of the Tri-Ï€-methane Rearrangement: Mechanistic and Exploratory Organic Photochemistry1. Journal of Organic Chemistry, 2001, 66, 1839-1851.	3.2	17
25	Novel perfluoroalkylated derivatives of d-galactopyranose and xylitol for biomedical uses. Hemocompatibility and effect on perfluorocarbon emulsions. Carbohydrate Research, 2004, 339, 2177-2185.	2.3	17
26	Novel Bisquaternary Oximesâ€"Reactivation of Acetylcholinesterase and Butyrylcholinesterase Inhibited by Paraoxon. Molecules, 2009, 14, 4915-4921.	3.8	17
27	Fluorinated epoxides. Journal of Fluorine Chemistry, 2000, 102, 349-361.	1.7	16
28	Enantioenriched Ruthenium-Tris-Bipyridine Complexes Bearing One Helical Bipyridine Ligand: Access to Fused Multihelicenic Systems and Chiroptical Redox Switches. Inorganic Chemistry, 2021, 60, 11838-11851.	4.0	16
29	Radical addition reactions of fluorinated species. Part 8. Regioselectivity of radical additions to perfluoroalkylethylenes and quantum chemical calculations. Highly selective two-step synthesis of 4-(perfluoroalkyl)butane-1,2-diols. Journal of Fluorine Chemistry, 2000, 102, 159-168.	1.7	15
30	Microwave photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 168, 197-204.	3.9	15
31	Oxidative Photocyclization of Aromatic Schiff Bases in Synthesis of Phenanthridines and Other Aza-PAHs. International Journal of Molecular Sciences, 2020, 21, 5868.	4.1	15
32	Radical addition reactions of fluorinated species Part 6. Regioselectivity of the addition of nucleophilic radicals to halogenopropenes and evidence for a steric effect of the chlorine substituent. Journal of Fluorine Chemistry, 1997, 86, 155-171.	1.7	14
33	Microwave photochemistry III: Photochemistry of 4-tert-butylphenol. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 174, 38-44.	3.9	14
34	Anodic Deposition of Enantiopure Hexahelicene Layers. ChemElectroChem, 2018, 5, 2080-2088.	3.4	14
35	Microwave photocatalysis II: novel continuousâ€flow microwave photocatalytic experimental setâ€up with titaniaâ€coated mercury electrodeless discharge lamps. Journal of Chemical Technology and Biotechnology, 2009, 84, 1125-1129.	3.2	13
36	Efficient preparation of nanocrystalline anatase TiO2 and V/TiO2 thin layers using microwave drying and/or microwave calcination technique. Journal of Solid State Chemistry, 2009, 182, 3387-3392.	2.9	13

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37	Cationâ€“Ï€ interaction of Ag+ with [6]helicene: An experimental and theoretical study. Chemical Physics Letters, 2015, 633, 105-108.	2.6	12
38	The Tri-Ï€-methane Rearrangement:â€‰ Mechanistic and Exploratory Organic Photochemistry1. Organic Letters, 2000, 2, 2365-2367.	4.6	11
39	Radical additions to fluoroolefins. Thermal reaction of perfluoroallyl chloride with perfluoroalkyl iodides as a selective synthesis of terminal perfluoroolefins. Journal of Fluorine Chemistry, 1995, 75, 87-92.	1.7	10
40	Synthesis of Aza[n]helicenes (n = 4â€“7) via Photocyclodehydrochlorination of 1-Chloro-N-aryl-2-naphthamides. Journal of Organic Chemistry, 2022, 87, 7150-7166.	3.2	10
41	Copper-mediated synthesis of mono- and dichlorinated diaryl ethers. Tetrahedron Letters, 2014, 55, 4185-4188.	1.4	8
42	Experimental and theoretical study on cationâ€“Ï€ interaction of Ag+ with [6]helicene. Structural Chemistry, 2016, 27, 627-635.	2.0	7
43	Photoaddition reactions of fluoroolefins with diols and cyclic ethers. Macromolecular Symposia, 1994, 82, 111-114.	0.7	6
44	Amphiphilic Perfluoroalkylated Derivatives of Aliphatic Triols: Hemocompatibility and Effect on Perfluorocarbon Emulsion. Collection of Czechoslovak Chemical Communications, 2002, 67, 1436-1448.	1.0	6
45	Cation-Ï€ interaction of Tl+ with [6]helicene: Experimental and DFT study. Journal of Molecular Structure, 2015, 1100, 150-153.	3.6	5
46	Synthesis of Aza[n]phenacenes (n = 4â€“6) via Photocyclodehydrochlorination of 2-Chloro-N-aryl-1-naphthamides. Journal of Organic Chemistry, 2021, 86, 13252-13264.	3.2	5
47	A ground state tri-Ï€-methane rearrangement. Tetrahedron Letters, 2000, 41, 9585-9587.	1.4	4
48	Fluorinated epoxides. Journal of Fluorine Chemistry, 2003, 121, 101-104.	1.7	4
49	Microwave photochemistry V: Lowâ€pressure batch and continuousâ€flow microwave photoreactors with quartz mercury electrodeless discharge lamps. Photohydrolysis of monoâ€chloroacetic acid. Journal of Chemical Technology and Biotechnology, 2010, 85, 185-191.	3.2	4
50	p-Doping of graphene in hybrid materials with 3,10-diazapicenium dications. Chemical Science, 2017, 8, 3494-3499.	7.4	4
51	New perfluoroalkylated amphiphilic methacrylates bearing sulfinyl group asÂmonomers forÂbiomedical applications: water content andÂoxygen permeability ofÂtheirÂcopolymers with DEGMA. European Journal of Medicinal Chemistry, 2006, 41, 1320-1326.	5.5	3
52	Microwave photocatalysis <scp>IV</scp>: Effects of additional operational parameters on the microwave photocatalytic degradation of monoâ€chloroacetic acid using titaniaâ€coated mercury electrodeless discharge lamps. Journal of Chemical Technology and Biotechnology, 2013, 88, 1109-1113.	3.2	3
53	Cytotoxicity of hexahelicene and its effect on the aryl hydrocarbon receptor pathway. Toxicology in Vitro, 2019, 57, 105-109.	2.4	3
54	Novel Nucleophilic Compounds with Oxime Group as Reactivators of Paraoxon-Inhibited Cholinesterases. Letters in Drug Design and Discovery, 2010, 7, 260-264.	0.7	3

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55	Rapid and Efficient Synthesis of N-alkylbenzamides Under Microwave Irradiation. Letters in Organic Chemistry, 2013, 10, 126-130.	0.5	2
56	Amphiphilic Perfluoroalkylated Derivatives of Aliphatic Triols: Hemocompatibility and Effect on Perfluorocarbon Emulsion.. ChemInform, 2003, 34, no.	0.0	0