Radek Cibulka

List of Publications by Year
in descending order

74 papers	1,920 citations	236612 25 h-index	288905 40 g-index
105 all docs	105 docs citations	105 times ranked	1452 citing authors

#	Article	IF	Citations
1	Efficient Metalâ€Free Aerobic Photooxidation of Sulfides to Sulfoxides Mediated by a Vitamin B₂ Derivative and Visible Light. Advanced Synthesis and Catalysis, 2016, 358, 1654-1663.	2.1	124
2	Photooxidation of Sulfides to Sulfoxides Mediated by Tetraâ€<i>O</i>â€Acetylriboflavin and Visible Light. ChemCatChem, 2012, 4, 620-623.	1.8	117
3	Artificial Flavin Systems for Chemoselective and Stereoselective Oxidations. European Journal of Organic Chemistry, 2015, 2015, 915-932.	1.2	95
4	Tailoring flavins for visible light photocatalysis: organocatalytic [2+2] cycloadditions mediated by a flavin derivative and visible light. Chemical Communications, 2015, 51, 12036-12039.	2.2	91
5	Catalytic Photooxidation of 4-Methoxybenzyl Alcohol with a Flavin-Zinc(II)-Cyclen Complex. Chemistry - A European Journal, 2004, 10, 6223-6231.	1.7	83
6	Combining Flavin Photocatalysis and Organocatalysis: Metal-Free Aerobic Oxidation of Unactivated Benzylic Substrates. Organic Letters, 2019, 21, 114-119.	2.4	79
7	Biomimetic aerobic oxidative hydroxylation of arylboronic acids to phenols catalysed by a flavin derivative. Organic and Biomolecular Chemistry, 2014, 12, 2137.	1.5	61
8	Flavinâ€“cyclodextrin conjugates as catalysts of enantioselective sulfoxidations with hydrogen peroxide in aqueous media. Chemical Communications, 2010, 46, 7599.	2.2	60
9	Planar Chiral Flavinium Salts â€“ Prospective Catalysts for Enantioselective Sulfoxidation Reactions. European Journal of Organic Chemistry, 2010, 2010, 5217-5224.	1.2	57
10	N1,N10-Ethylene-bridged flavinium salts derived from l-valinol: synthesis and catalytic activity in H2O2 oxidations. Tetrahedron Letters, 2010, 51, 1083-1086.	0.7	53
11	Alloxazineâ€“cyclodextrin conjugates for organocatalytic enantioselective sulfoxidations. Organic and Biomolecular Chemistry, 2011, 9, 7318.	1.5	48
12	Electron-Deficient Heteroarenium Salts: An Organocatalytic Tool for Activation of Hydrogen Peroxide in Oxidations. Journal of Organic Chemistry, 2015, 80, 2676-2699.	1.7	43
13	Aggregation Effects in Visibleâ€Light Flavin Photocatalysts: Synthesis, Structure, and Catalytic Activity of 10â€Arylflavins. Chemistry - A European Journal, 2013, 19, 1066-1075.	1.7	37
14	Deazaflavin reductive photocatalysis involves excited semiquinone radicals. Nature Communications, 2020, 11, 3174.	5.8	37
15	Organocatalytic sulfoxidation in micellar systems containing amphiphilic flavinium salts using hydrogen peroxide as a terminal oxidant. Journal of Molecular Catalysis A, 2007, 277, 53-60.	4.8	36
16	Photocatalytic Systems with Flavinium Salts: From Photolyase Models to Synthetic Tool for Cyclobutane Ring Opening. Organic Letters, 2016, 18, 3710-3713.	2.4	34
17	Pyrazinium Salts as Efficient Organocatalysts of Mild Oxidations with Hydrogen Peroxide. Advanced Synthesis and Catalysis, 2011, 353, 865-870.	2.1	32
18	Flavinâ€“cyclodextrin conjugates: effect of the structure on the catalytic activity in enantioselective sulfoxidations. Tetrahedron: Asymmetry, 2012, 23, 1571-1583.	1.8	32

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19	Photocatalytic esterification under Mitsunobu reaction conditions mediated by flavin and visible light. Organic and Biomolecular Chemistry, 2017, 15, 1970-1975.	1.5	32
20	Azodicarboxylate-free esterification with triphenylphosphine mediated by flavin and visible light: method development and stereoselectivity control. Organic and Biomolecular Chemistry, 2018, 16, 6809-6817.	1.5	30
21	Tuning Flavinâ€Based Photocatalytic Systems for Application in the Mild Chemoselective Aerobic Oxidation of Benzylic Substrates. European Journal of Organic Chemistry, 2020, 2020, 1579-1585.	1.2	30
22	Design, Synthesis, and Evaluation of a Biomimetic Artificial Photolyase Model. Journal of Organic Chemistry, 2004, 69, 8183-8185.	1.7	29
23	Flavinium Catalysed Photooxidation: Detection and Characterization of Elusive Peroxyflavinium Intermediates. Angewandte Chemie - International Edition, 2019, 58, 15412-15420.	7.2	29
24	Flavinâ€Mediated Visibleâ€Light [2+2] Photocycloaddition of Nitrogenâ€• and Sulfurâ€Containing Dienes. European Journal of Organic Chemistry, 2017, 2017, 2139-2146.	1.2	28
25	Amide Bond Formation via Aerobic Photooxidative Coupling of Aldehydes with Amines Catalyzed by a Riboflavin Derivative. Organic Letters, 2021, 23, 6825-6830.	2.4	28
26	Insight into the catalytic activity of alloxazinium and isoalloxazinium salts in the oxidations of sulfides and amines with hydrogen peroxide. Journal of Molecular Catalysis A, 2012, 363-364, 362-370.	4.8	27
27	Flavin photocatalysis. Physical Sciences Reviews, 2018, 3, .	0.8	27
28	Planar Chiral Flavinium Salts: Synthesis and Evaluation of the Effect of Substituents on the Catalytic Efficiency in Enantioselective Sulfoxidation Reactions. European Journal of Organic Chemistry, 2013, 2013, 7724-7738.	1.2	25
29	Electronâ€Deficient Alloxazinium Salts: Efficient Organocatalysts of Mild and Chemoselective Sulfoxidations with Hydrogen Peroxide. Advanced Synthesis and Catalysis, 2013, 355, 3451-3462.	2.1	25
30	Visible Light [2+2] Photocycloaddition Mediated by Flavin Derivative Immobilized on Mesoporous Silica. ChemCatChem, 2017, 9, 1177-1181.	1.8	24
31	Flavin Photocatalysts for Visibleâ€Light [2+2] Cycloadditions: Structure, Reactivity and Reaction Mechanism. ChemCatChem, 2018, 10, 849-858.	1.8	23
32	Catalytic effect of alloxazinium and isoalloxazinium salts on oxidation of sulfides with hydrogen peroxide in micellar media. Collection of Czechoslovak Chemical Communications, 2009, 74, 973-993.	1.0	22
33	Quaternary Pyridinium Ketoximes - New Efficient Micellar Hydrolytic Catalysts. Collection of Czechoslovak Chemical Communications, 2000, 65, 227-242.	1.0	21
34	Amphiphilic quaternary pyridinium ketoximes as functional hydrolytic micellar catalysts â€" does the nucleophilic function position influence their reactivity?. Journal of Molecular Catalysis A, 2001, 174, 59-62.	4.8	20
35	Cleavage of 4-Nitrophenyl Diphenyl Phosphate by Isomeric Quaternary Pyridinium Ketoximes - How Can Structure and Lipophilicity of Functional Surfactants Influence Their Reactivity in Micelles and Microemulsions?. Collection of Czechoslovak Chemical Communications, 2006, 71, 1642-1658.	1.0	20
36	Synthesis of Flavinâ€"Calix[4]arene Conjugate Derivatives. Helvetica Chimica Acta, 2011, 94, 481-486.	1.0	20

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37	Reparametrization and/or Determination of Hammett, Inductive, Mesomeric and AISE Substituent Constants for Five Substituents: N+(CH3)3, CH2N+(CH3)3, CH2Py+, CH2SO2CH3 and PO(OCH3)2. Collection of Czechoslovak Chemical Communications, 2004, 69, 2239-2252.	1.0	19
38	Metal Ion Chelates of Lipophilic Alkyl Diazinyl Ketoximes as Hydrolytic Catalysts. Collection of Czechoslovak Chemical Communications, 1999, 64, 1159-1179.	1.0	17
39	Synthesis of Symmetrical Dinitroâ€•and Diaminoâ€Substituted TrÃ¶ger's Base Analogues. European Journal of Organic Chemistry, 2012, 2012, 7066-7074.	1.2	16
40	Urea derivatives based on a 1,1â€²-binaphthalene skeleton as chiral solvating agents for sulfoxides. Tetrahedron: Asymmetry, 2015, 26, 1328-1334.	1.8	15
41	Synthesis and structural studies of flavin and alloxazine adducts with O-nucleophiles. Journal of Molecular Structure, 2011, 1004, 178-187.	1.8	14
42	Flavin derivatives immobilized on mesoporous silica: a versatile tool in visible-light photooxidation reactions. Monatshefte FÃ¼r Chemie, 2018, 149, 863-869.	0.9	14
43	Spatially Resolved Covalent Functionalization Patterns on Graphene. Angewandte Chemie - International Edition, 2019, 58, 1324-1328.	7.2	14
44	Metallomicellar Hydrolytic Catalysts Containing Ligand Surfactants Derived from Alkyl Pyridin-2-yl Ketoxime. Collection of Czechoslovak Chemical Communications, 1997, 62, 1342-1354.	1.0	13
45	Phaseâ€•Transfer Catalysis in Oxidations Based on the Covalent Bonding of Hydrogen Peroxide to Amphiphilic Flavinium Salts. ChemCatChem, 2014, 6, 2843-2846.	1.8	13
46	Twoâ€Phase Oxidations with Aqueous Hydrogen Peroxide Catalyzed by Amphiphilic Pyridinium and Diazinium Salts. Advanced Synthesis and Catalysis, 2015, 357, 3573-3586.	2.1	12
47	Robust Photocatalytic Method Using Ethyleneâ€Bridged Flavinium Salts for the Aerobic Oxidation of Unactivated Benzylic Substrates. Advanced Synthesis and Catalysis, 2021, 363, 4371-4379.	2.1	12
48	Tuning Deazaflavins Towards Highly Potent Reducing Photocatalysts Guided by Mechanistic Understanding â€“ Enhancement of the Key Step by the Internal Heavy Atom Effect. Chemistry - A European Journal, 2022, 28, .	1.7	11
49	Chiral ethylene-bridged flavinium salts: the stereoselectivity of flavin-10a-hydroperoxide formation and the effect of substitution on the photochemical properties. Tetrahedron: Asymmetry, 2017, 28, 1780-1791.	1.8	10
50	Photocatalytic Oxidative [2+2] Cycloelimination Reactions with Flavinium Salts: Mechanistic Study and Influence of the Catalyst Structure. ChemPlusChem, 2021, 86, 373-386.	1.3	10
51	Lipophilic N-[2-hydroxyimino-2-(pyridin-2-yl)ethyl]trialkylammonium salts - new ligands for metal ion extractions into organic solvents. Tetrahedron Letters, 1999, 40, 6849-6852.	0.7	9
52	Electrochemical Reductions of Ni2+, Cu2+ and Zn2+ Complexes of Azinyl Methyl Ketoximes on Mercury. Collection of Czechoslovak Chemical Communications, 2001, 66, 170-184.	1.0	9
53	Inhibition of copper amine oxidases by pyridine-derived aldoximes and ketoximes. Biochimie, 2001, 83, 995-1002.	1.3	9
54	Reactivity of p-Substituted Benzaldoximes in the Cleavage of p-Nitrophenyl Acetate: Kinetics and Mechanism. Collection of Czechoslovak Chemical Communications, 2004, 69, 397-413.	1.0	9

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55	Flavin Catalysis Employing an N(5)â€Adduct: an Application in the Aerobic Organocatalytic Mitsunobu Reaction. European Journal of Organic Chemistry, 2019, 2019, 3264-3268.	1.2	9
56	A Click Chemistry Approach towards Flavin-Cyclodextrin Conjugatesâ€"Bioinspired Sulfoxidation Catalysts. Molecules, 2015, 20, 19837-19848.	1.7	8
57	Molecular dynamics and metadynamics simulations of [2â€‰+â€‰2] photocycloaddition. International Journal of Quantum Chemistry, 2018, 118, e25534.	1.0	7
58	Reactivity in Micelles - Are We Really Able to Design Micellar Catalysts?. Collection of Czechoslovak Chemical Communications, 2008, 73, 127-146.	1.0	6
59	Constrained open mapping theorem with applications. Journal of Mathematical Analysis and Applications, 2011, 379, 205-215.	0.5	6
60	Spatially Resolved Covalent Functionalization Patterns on Graphene. Angewandte Chemie, 2019, 131, 1338-1342.	1.6	6
61	3. Flavin photocatalysis. , 2020, , 45-72.		6
62	Strong chemical reducing agents produced by light. Nature, 2020, 580, 31-32.	13.7	6
63	4 Flavin photocatalysis. , 2013, , 45-66.		5
64	Flavinium Catalysed Photooxidation: Detection and Characterization of Elusive Peroxyflavinium Intermediates. Angewandte Chemie, 2019, 131, 15558-15566.	1.6	5
65	Nitrosobenzene: Reagent for the Mitsunobu Esterification Reaction. ACS Omega, 2019, 4, 5012-5018.	1.6	5
66	Unusual Course of the p-Nitrophenyl Phosphate Esters Cleavage by 3-Hydroxyiminoalkylpyridinium Salts in Micellar Solutions. Chemistry Letters, 1998, 27, 649-650.	0.7	4
67	Photophysical properties of alloxazine derivatives with extended aromaticity â€" Potential redox-sensitive fluorescent probe. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 272, 120985.	2.0	4
68	Metal Ion Transport Through Bulk Liquid Membrane Mediated by Cationic Ligand Surfactants. Collection of Czechoslovak Chemical Communications, 2005, 70, 441-465.	1.0	3
69	Flavinâ€Helicene Amphiphilic Hybrids: Synthesis, Characterization, and Preparation of Surfaceâ€Supported Films. ChemPlusChem, 2021, 86, 982-990.	1.3	3
70	Electrochemical Reductions of Methyl Azinyl Ketoximes on Mercury. Collection of Czechoslovak Chemical Communications, 2000, 65, 1630-1642.	1.0	2
71	Visibleâ€Lightâ€Induced Diâ€Ï€â€Methane Rearrangement of Dibenzobarrelene Derivatives. ChemPhotoChem, 2020, 4, 132-137.	1.5	2
72	5-Ethyl-4a-methoxy-1,3-dimethyl-4a,5-dihydrobenzo[g]pteridine-2,4(1H,3H)dione. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1536-o1537.	0.2	1

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73	10-Methylisoalloxazine 5-oxide from synchrotron powder diffraction data. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o3350-o3351.	0.2	0
74	Titelbild: Flavinium Catalysed Photooxidation: Detection and Characterization of Elusive Peroxyflavinium Intermediates (Angew. Chem. 43/2019). Angewandte Chemie, 2019, 131, 15305-15305.	1.6	0