Vera A Vil

List of Publications by Citations

54 papers	1,008 citations	17 h-index	31 g-index
58 ext. papers	1,241 ext. citations	4.6 avg, IF	4.68 L-index

#	Paper	IF	Citations
54	Cross-dehydrogenative coupling for the intermolecular C-O bond formation. *Beilstein Journal of Organic Chemistry*, **2015**, 11, 92-146	2.5	129
53	Rearrangements of organic peroxides and related processes. *Beilstein Journal of Organic Chemistry*, **2016**, 12, 1647-748	2.5	115
52	Organic and hybrid systems: from science to practice. *Mendeleev Communications*, **2017**, 27, 425-438	1.9	79
51	Synthesis of five- and six-membered cyclic organic peroxides: Key transformations into peroxide ring-retaining products. *Beilstein Journal of Organic Chemistry*, **2014**, 10, 34-114	2.5	74
50	Stereoelectronic source of the anomalous stability of bis-peroxides. *Chemical Science*, **2015**, 6, 6783-6791	9.4	66
49	Interrupted Baeyer-Villiger Rearrangement: Building A Stereoelectronic Trap for the Criegee Intermediate. *Angewandte Chemie - International Edition*, **2018**, 57, 3372-3376	16.4	51
48	Phosphomolybdic and phosphotungstic acids as efficient catalysts for the synthesis of bridged 1,2,4,5-tetraoxanes from □diketones and hydrogen peroxide. *Organic and Biomolecular Chemistry*, **2013**, 11, 2613-23	3.9	39
47	Peroxides with Anthelmintic, Antiprotozoal, Fungicidal and Antiviral Bioactivity: Properties, Synthesis and Reactions. *Molecules*, **2017**, 22,	4.8	37
46	Ozone-Free Synthesis of Ozonides: Assembling Bicyclic Structures from 1,5-Diketones and Hydrogen Peroxide. *Journal of Organic Chemistry*, **2018**, 83, 4402-4426	4.2	29
45	Stereoelectronic power of oxygen in control of chemical reactivity: the anomeric effect is not alone. *Chemical Society Reviews*, **2021**, 50, 10253-10345	58.5	28
44	Approach for the preparation of various classes of peroxides based on the reaction of triketones with H2O2: first examples of ozonide rearrangements. *Chemistry - A European Journal*, **2014**, 20, 10160-9	4.8	24
43	Synthetic Strategies for Peroxide Ring Construction in Artemisinin. *Molecules*, **2017**, 22,	4.8	23
42	Lanthanide-Catalyzed Oxyfunctionalization of 1,3-Diketones, Acetoacetic Esters, And Malonates by Oxidative C-O Coupling with Malonyl Peroxides. *Journal of Organic Chemistry*, **2016**, 81, 810-23	4.2	22
41	Boron Trifluoride as an Efficient Catalyst for the Selective Synthesis of Tricyclic Monoperoxides from □Triketones and H2O2. *Synthesis*, **2013**, 45, 246-250	2.9	22
40	Electrochemically Induced Intermolecular Cross-Dehydrogenative C-O Coupling of □Diketones and □Ketoesters with Carboxylic Acids. *Journal of Organic Chemistry*, **2019**, 84, 1448-1460	4.2	22
39	Peroxy steroids derived from plant and fungi and their biological activities. *Applied Microbiology and Biotechnology*, **2018**, 102, 7657-7667	5.7	18
38	Five Roads That Converge at the Cyclic Peroxy-Criegee Intermediates: BF-Catalyzed Synthesis of □Hydroperoxy-□peroxylactones. *Journal of Organic Chemistry*, **2018**, 83, 13427-13445	4.2	17

37	Hydroperoxy steroids and triterpenoids derived from plant and fungi: Origin, structures and biological activities. *Journal of Steroid Biochemistry and Molecular Biology*, **2019**, 190, 76-87	5.1	16
36	Selective Oxidative Coupling of 3H-Pyrazol-3-ones, Isoxazol-5(2H)-ones, Pyrazolidine-3,5-diones, and Barbituric Acids with Malonyl Peroxides: An Effective C-O Functionalization. *ChemistrySelect*, **2017**, 2, 3334-3341	1.8	15
35	Lanthanide-Catalyzed Oxidative □ Coupling of 1,3-Dicarbonyl Compounds with Diacyl Peroxides. *Synlett*, **2015**, 26, 802-806	2.2	15
34	Interrupted Baeyer□Villiger Rearrangement: Building A Stereoelectronic Trap for the Criegee Intermediate. *Angewandte Chemie*, **2018**, 130, 3430-3434	3.6	15
33	Oxetane-containing metabolites: origin, structures, and biological activities. *Applied Microbiology and Biotechnology*, **2019**, 103, 2449-2467	5.7	14
32	A convenient synthesis of cyclopropane malonyl peroxide. *Mendeleev Communications*, **2014**, 24, 345	1.9	12
31	Silica gel mediated oxidative C□ coupling of □dicarbonyl compounds with malonyl peroxides in solvent-free conditions. *Pure and Applied Chemistry*, **2018**, 90, 7-20	2.1	11
30	Synthesis of unstrained Criegee intermediates: inverse □effect and other protective stereoelectronic forces can stop Baeyer-Villiger rearrangement of □hydroperoxy-□peroxylactones. *Chemical Science*, **2020**, 11, 5313-5322	9.4	10
29	Peroxycarbenium Ions as the "Gatekeepers" in Reaction Design: Assistance from Inverse Alpha-Effect in Three-Component □Alkoxy-□peroxylactones Synthesis. *Chemistry - A European Journal*, **2019**, 25, 14460-14468	4.8	9
28	Peroxidation of □diketones and □keto esters with tert-butyl hydroperoxide in the presence of Cu(ClO4)2/SiO2. *Russian Chemical Bulletin*, **2014**, 63, 2461-2466	1.7	9
27	C□ coupling of Malonyl Peroxides with Enol Ethers via [5+2] Cycloaddition: Non-Rubottom Oxidation. *Advanced Synthesis and Catalysis*, **2019**, 361, 3173-3181	5.6	8
26	Preparation of a microsized cerium chloride-based catalyst and its application in the Michael addition of □diketones to vinyl ketones. *New Journal of Chemistry*, **2014**, 38, 1493-1502	3.6	8
25	Naturally occurring of □□diepoxy-containing compounds: origin, structures, and biological activities. *Applied Microbiology and Biotechnology*, **2019**, 103, 3249-3264	5.7	7
24	Alcoholysis of malonyl peroxides to give peracids. *Mendeleev Communications*, **2016**, 26, 14-15	1.9	6
23	Regioselective Baeyer□Villiger Oxidation of Steroidal Ketones to Lactones Using BF3/H2O2. *European Journal of Organic Chemistry*, **2020**, 2020, 402-405	3.2	6
22	Ion exchange resin-catalyzed synthesis of bridged tetraoxanes possessing in vitro cytotoxicity against HeLa cancer cells. *Chemistry of Heterocyclic Compounds*, **2020**, 56, 722-726	1.4	6
21	Hydroperoxides derived from marine sources: origin and biological activities. *Applied Microbiology and Biotechnology*, **2019**, 103, 1627-1642	5.7	6
20	Synthesis of dibromo ketones by the reaction of the environmentally benign H2O2-HBr system with oximes. *Open Chemistry*, **2012**, 10, 360-367	1.6	4

19	Alkene, Bromide, and ROH – How To Achieve Selectivity? Electrochemical Synthesis of Bromohydrins and Their Ethers. *Advanced Synthesis and Catalysis*, **2021**, 363, 3070-3078	5.6	4
18	Kharasch reaction: Cu-catalyzed and non-Kharasch metal-free peroxidation of barbituric acids. *Tetrahedron Letters*, **2019**, 60, 920-924	2	4
17	Radical addition of tetrahydrofuran to imines assisted by tert-butyl hydroperoxide. *Tetrahedron Letters*, **2020**, 61, 152150	2	3
16	Metal-based Lewis acids in the synthesis of cyclic organic peroxides (microreview). *Chemistry of Heterocyclic Compounds*, **2020**, 56, 299-301	1.4	3
15	Bioactive Natural and Synthetic Peroxides for the Treatment of Helminth and Protozoan Pathogens: Synthesis and Properties. *Current Topics in Medicinal Chemistry*, **2019**, 19, 1201-1225	3	3
14	Electrochemical Synthesis of Fluorinated Ketones from Enol Acetates and Sodium Perfluoroalkyl Sulfinates. *Organic Letters*, **2021**, 23, 5107-5112	6.2	3
13	Electrochemical Reduction of Spirocyclopentylmalonyl Peroxide in an Aqueous Medium. *Russian Journal of Physical Chemistry A*, **2020**, 94, 859-863	0.7	2
12	Spontaneous reaction of malonyl peroxides with methanol. *Mendeleev Communications*, **2017**, 27, 243-245	1.9	2
11	Visible-light-induced synthesis of phosphorylated N-heterocycles through proton-coupled electron transfer. *Science China Chemistry*, **2021**, 64, 681-683	7.9	2
10	Malonyl peroxides in organic synthesis (microreview). *Chemistry of Heterocyclic Compounds*, **2019**, 55, 1035-1037	1.4	2
9	Dimethylmalonoyl peroxide – the neglected lowest homologue: simple synthesis and high reactivity. *Mendeleev Communications*, **2018**, 28, 505-507	1.9	2
8	Oxidative α-acyloxylation of acetals with cyclic diacyl peroxides. *Organic Chemistry Frontiers*, **2021**, 8, 3091-3101	5.2	2
7	Oxidative C–O coupling as a new idea in the “click-like chemistry”: malonyl peroxides for the conjugation of two molecules. *Mendeleev Communications*, **2019**, 29, 132-134	1.9	1
6	Adsorption of benzoyl peroxide on activated carbon. *Solid Fuel Chemistry*, **2016**, 50, 306-309	0.7	1
5	Electrochemical behavior of phthaloyl peroxide in aqueous media. *Russian Chemical Bulletin*, **2017**, 66, 2044-2047	1.7	1
4	Carboxylate as a Non-innocent L-Ligand: Computational and Experimental Search for Metal-Bound Carboxylate Radicals. *Organic Letters*, **2022**, 24, 3817-3822	6.2	1
3	Synthesis of Acyclic Geminal Bis-peroxides. *Russian Journal of Organic Chemistry*, **2021**, 57, 853-878	0.7	0
2	Solvent-free silica gel mediated decarboxylation of C–O coupling products of β-diketones and β-oxo esters with malonyl peroxides. *Mendeleev Communications*, **2019**, 29, 55-56	1.9	0

1	Electrochemical Behavior of Gold in Aqueous Solutions of Spirocyclopentyl Malonyl Peroxide. *Russian Journal of Physical Chemistry A*, **2021**, 95, 213-216	0.7