

Balzs Volk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82 papers	593 citations	14 h-index	20 g-index
117 ext. papers	741 ext. citations	2.8 avg, IF	3.88 L-index

#	Paper	IF	Citations
82	Mucoadhesive meloxicam-loaded nanoemulsions: Development, characterization and nasal applicability studies. <i>European Journal of Pharmaceutical Sciences</i> , 2022 , 175, 106229	5.1	0
81	Basicity-Tuned Reactivity: -[1,2]-Wittig versus -[1,3]-Wittig Rearrangements of 3,4-Dihydro-2-1,2,3-benzothiadiazine 1,1-Dioxides. <i>Journal of Organic Chemistry</i> , 2021 , 86, 1685-1700	4.2	
80	Development of In Situ Gelling Meloxicam-Human Serum Albumin Nanoparticle Formulation for Nose-to-Brain Application. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
79	First total synthesis of Ecarboline alkaloid trigonostemine G and its derivatives. <i>Natural Product Research</i> , 2021 , 35, 72-79	2.3	3
78	Synthesis of Indolo[2,3-]quinolin-6(7)-ones and Antimalarial Isonocryptolepine. Computational Study on the Pd-Catalyzed Intramolecular C-H Arylation. <i>Journal of Organic Chemistry</i> , 2021 , 86, 128-145	4.2	1
77	Chan-Lam Arylation of Benzimidazole and its Derivatives in the Presence of Copper-Containing Minerals. <i>ChemistrySelect</i> , 2021 , 6, 802-807	1.8	2
76	Recent Advances in the Synthesis of Ecarboline Alkaloids. <i>Molecules</i> , 2021 , 26,	4.8	13
75	Propylphosphonic anhydride (T3P®)-mediated three-component synthesis of hexahydrodibenzo[b,e][1,4]diazepin-1-one derivatives. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 237-240	1.4	4
74	Stereo- and regiocontrolled synthesis of highly functionalized cyclopentanes with multiple chiral centers. <i>Synthetic Communications</i> , 2020 , 50, 1199-1209	1.7	1
73	Phosphanyl-Substituted Siloles: Synthesis, Optical and Electrochemical Studies and Computations. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 1794-1802	2.3	
72	Study on the A3-coupling reaction catalyzed by readily available copper-containing minerals. Synthesis of propargylamines. <i>Tetrahedron Letters</i> , 2020 , 61, 151544	2	8
71	Rearrangement of -(pivaloylaminomethyl)benzaldehydes: an experimental and computational study. <i>Beilstein Journal of Organic Chemistry</i> , 2020 , 16, 1636-1648	2.5	0
70	Fragment-based labeling using condensation reactions of six potential 5-HT7R PET tracers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020 , 326, 1749-1762	1.5	
69	Transformation of 2H-1,2,3-benzothiadiazine 1,1-dioxides variously substituted at the aromatic ring, via nucleophilic substitution and demethylation reactions. <i>Synthetic Communications</i> , 2020 , 50, 3413-3423	1.7	3
68	Synthesis and Chemistry of 1,2,3-Benzothiadiazine 1,1-Dioxide Derivatives: A Comprehensive Overview. <i>Chemistry</i> , 2020 , 2, 674-690	2.1	2
67	Synthesis of 1-aryl-3H-[1,2,5]triazepino[5,4-a]benzimidazol-4(5H)-ones and quantum chemical investigation of the rotamers of the Boc-protected hydrazide key intermediate. <i>Mendeleev Communications</i> , 2019 , 29, 294-295	1.9	
66	Interesting transformations of methylenedioxy-substituted ortho-(pivaloylaminomethyl)benzaldehyde. <i>Monatshefte Für Chemie</i> , 2019 , 150, 1121-1125	1.4	1

65	Continuous flow production in the final step of vortioxetine synthesis. Piperazine ring formation on a flow platform with a focus on productivity and scalability. <i>Journal of Flow Chemistry</i> , 2019 , 9, 101-113	3.3	8
64	First total synthesis of the β -carboline alkaloids trigonostemine A, trigonostemine B and a new synthesis of pityriacitrin and hyrtiosulawesine. <i>Tetrahedron Letters</i> , 2019 , 60, 1471-1475	2	8
63	A novel tool for structure assignment of hydroxylated metabolites of (aryl)piperazinylbutyl)oxindole derivatives based on relative HPLC retention times. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 170, 102-111	3.5	1
62	Development and Evaluation of Two Potential 5-HT Receptor PET Tracers: [F]ENL09 and [F]ENL10. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 3961-3968	5.7	3
61	First reported propylphosphonic anhydride (T3P) mediated RobinsonGabriel cyclization. Synthesis of natural and unnatural 5-(3-indolyl)oxazoles. <i>Tetrahedron Letters</i> , 2019 , 60, 1353-1356	2	1
60	Synthesis, Alkylation and Reduction of 4-Aryl-2H-1,2,3-benzothiadiazine 1,1-dioxides. <i>ChemistrySelect</i> , 2019 , 4, 8295-8300	1.8	3
59	Synthesis of 4-methyl-2H-1,2,3-benzothiadiazine 1,1-dioxides and their further transformation via alkylation and reduction steps. <i>Synthetic Communications</i> , 2019 , 49, 3475-3485	1.7	4
58	Aziridines and Azirines Fused Ring Derivatives 2019 ,		1
57	Practical synthesis of two novel series of 1,3-disubstituted β -carboline derivatives. <i>Tetrahedron Letters</i> , 2018 , 59, 617-619	2	6
56	Synthesis of 1?-Aryl-1,3?-bi- β -carbolines and Their Saturated Counterparts. <i>Polycyclic Aromatic Compounds</i> , 2018 , 38, 131-140	1.3	2
55	Synthesis of 8-Fluoro-3,4-dihydroisoquinoline and Its Transformation to 1,8-Disubstituted Tetrahydroisoquinolines. <i>Molecules</i> , 2018 , 23,	4.8	2
54	A Review of 2,3-Benzodiazepine-related Compounds: Diazepines and 1,2,5- Triazepines Fused with Five-membered Nitrogen Heterocycles. <i>Current Organic Synthesis</i> , 2018 , 15, 729-754	1.9	4
53	Synthesis and further transformations of 8-chloro-3,4-dihydroisoquinoline. <i>Tetrahedron</i> , 2018 , 74, 7009-7017	2.1	5
52	Thermal Ring Contraction Reactions of 9-Aryl-5H,7H-[1,2,5]thiadiazolo[3,4-h][2,3,4]benzothiadiazepine 6,6-Dioxides. Experimental and Computational Studies for Understanding the Course of the Transformations. <i>Journal of Organic Chemistry</i> , 2017 , 82, 1335-1339	4.2	1
51	Study on the cycloaddition reactions of pyrrolotriazepine derivatives with nitrile oxides. Synthesis of new fused tricyclic ring systems. <i>Tetrahedron</i> , 2017 , 73, 1711-1717	2.4	2
50	Lithiation of 2-aryl-2-methyl-1,3-dioxolanes with PMDTA-complexed butyllithium. <i>Tetrahedron</i> , 2017 , 73, 298-306	2.4	3
49	Study on the Alkylation Reactions of N(7)-Unsubstituted 1,3-Diazaoxindoles. <i>Molecules</i> , 2017 , 22,	4.8	1
48	Experimental and Computational Study on the Debenzylation of (2,4-dimethoxybenzyl)-protected 1,3-diazaoxindoles. <i>Periodica Polytechnica: Chemical Engineering</i> , 2017 , 61, 264	1.3	

47	Synthesis of new tricyclic imidazotriazepine derivatives condensed with various heterocycles. <i>Molecular Diversity</i> , 2017 , 21, 903-914	3.1	
46	Study on the propylphosphonic anhydride (T3P [®]) mediated Ugi-type three-component reaction. Efficient synthesis of an amino amide library. <i>Tetrahedron</i> , 2017 , 73, 70-77	2.4	12
45	Synthesis of 1,4-diarylpyrrolotriazepine derivatives by two diverse strategies. <i>Monatshefte für Chemie</i> , 2016 , 147, 1975-1983	1.4	1
44	Synthesis and base-mediated rearrangement of 3-acetyl-2-methyl-3,4-dihydro-2H-1,2,3-benzothiadiazine 1,1-dioxides. <i>Tetrahedron</i> , 2016 , 72, 8463-8469	2.4	6
43	Computational study on the synthesis of 1-phenyl-3,4-dihydro- β -carboline: T3P [®] -promoted one-pot formation from tryptamine vs. POCl ₃ -mediated ring closure of Nb-benzoyltryptamine. The first DFT investigation of the Bischler-Napieralski reaction. <i>Computational and Theoretical Chemistry</i> , 2016 , 1097, 48-60	2	2
42	Convenient synthesis of 2-substituted 5,7-dihydro-6H-pyrrolo[2,3-d]pyrimidin-6-ones. <i>Monatshefte für Chemie</i> , 2016 , 147, 767-773	1.4	4
41	Literature Survey and Further Studies on the 3-Alkylation of N-Unprotected 3-Monosubstituted Oxindoles. Practical Synthesis of N-Unprotected 3,3-Disubstituted Oxindoles and Subsequent Transformations on the Aromatic Ring. <i>Molecules</i> , 2016 , 22,	4.8	2
40	Synthesis of 6-Aryl-2,11-dihydro-3H-pyrrolo[1,2-e][1,2,4]triazolo[4,3-b][1,2,5]triazepin-3-ones. <i>Letters in Organic Chemistry</i> , 2016 , 13, 531-535	0.6	3
39	Propylphosphonic anhydride (T3P [®]) mediated one-pot three-component synthesis of racemic dialkyl (2-substituted-3-oxo-2,3-dihydro-1H-isoindol-1-yl)phosphonates. <i>Tetrahedron</i> , 2016 , 72, 5091-5099	2.4	13
38	Synthetic study on the T3P [®] -promoted one-pot preparation of 1-substituted-3,4-dihydro- β -carbolines by the reaction of tryptamine with carboxylic acids. <i>Tetrahedron Letters</i> , 2016 , 57, 1953-1957	2	14
37	Efficient synthesis of a new compound family, 9-aryl-5 H-imidazo[2,1-d][1,2,5]triazepin-6(7 H)-ones. <i>Tetrahedron</i> , 2016 , 72, 5427-5432	2.4	8
36	Synthesis of a new tetracyclic ring system: pyrrolotriazepinoquinazolinone derivatives. <i>Tetrahedron</i> , 2015 , 71, 6759-6763	2.4	3
35	A novel GABA(A) alpha 5 receptor inhibitor with therapeutic potential. <i>European Journal of Pharmacology</i> , 2015 , 764, 497-507	5.3	19
34	Evaluation of 3-Ethyl-3-(phenylpiperazinylbutyl)oxindoles as PET Ligands for the Serotonin 5-HT _{1A} Receptor: Synthesis, Pharmacology, Radiolabeling, and in Vivo Brain Imaging in Pigs. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 3631-6	8.3	21
33	Efficient synthesis of N-b-thioacyltryptamine derivatives by a three-component Willgerodt-Knorr reaction, and their transformation to 1-substituted-3,4-dihydro- β -carbolines. <i>Tetrahedron Letters</i> , 2015 , 56, 5697-5700	2	5
32	Consecutive alkylation/oxidation reactions of 2 H-1,2,3-benzothiadiazine 1,1-dioxide derivatives. Synthesis of 2-alkyl-, 3-alkyl-, and 2,3-dialkyl-3,4-dihydro-2 H-1,2,3-benzothiadiazine 1,1-dioxides. <i>Tetrahedron</i> , 2015 , 71, 44-50	2.4	5
31	Chemistry of an Unexplored Heterocyclic Ring System: Versatile Synthesis of 5-Aryl-2,3,4-benzothiadiazepine 2,2-dioxides. <i>Journal of Heterocyclic Chemistry</i> , 2015 , 52, 1136-1142	1.9	1
30	Synthesis of Three New Tricyclic Ring Systems: Pyrrolotriazepines Condensed with an Imidazole, a Triazole, or a Tetrazole Ring. <i>Synlett</i> , 2015 , 26, 2418-2424	2.2	8

29	An interesting sidetrack in the tofisopam synthesis: lithium variant of a stereospecific Oppenauer oxidation. <i>Arkivoc</i> , 2015 , 2015, 127-138	0.9	2
28	Synthesis of 4-unsubstituted 2H-1,2,3-benzothiadiazine 1,1-dioxides via ortho lithiation of protected benzaldehyde derivatives. <i>Tetrahedron</i> , 2014 , 70, 286-293	2.4	11
27	Synthesis of a new compound family, 1-aryl-3H-pyrrolo[2,1-d][1,2,5]triazepin-4(5H)-ones. <i>Tetrahedron</i> , 2014 , 70, 465-476	2.4	9
26	Interactions of non-charged tadalafil stereoisomers with cyclodextrins: capillary electrophoresis and nuclear magnetic resonance studies. <i>Journal of Chromatography A</i> , 2014 , 1363, 348-55	4.5	17
25	Convenient synthesis of 1-aryl-9H-fluorene-3-carbaldehydes and their transformation into dihydropyrimidinone derivatives by Biginelli reaction. <i>Tetrahedron</i> , 2014 , 70, 5711-5719	2.4	15
24	New, Lithiation-Based Synthesis of Tofisopam, a 2,3-Benzodiazepine Type Anxiolytic Drug. <i>Heterocycles</i> , 2014 , 88, 287	0.8	3
23	New Synthetic Approach for the Preparation of 1-Aryl-3,4-dihydroisoquinolines by Liebeskind-Brogl Reaction. <i>Synlett</i> , 2014 , 25, 2574-2578	2.2	3
22	Alkylation of 2H-1,2,3-benzothiadiazine 1,1-dioxides. Formation of a new family of mesoionic compounds. <i>Tetrahedron</i> , 2014 , 70, 2169-2174	2.4	7
21	Efficient syntheses of the versatile phthalide building blocks, 5,6-diaminoisobenzofuran-1(3H)-one and 5H,7H-furo[3,4-f][2,1,3]benzothiadiazol-5-one. <i>Tetrahedron Letters</i> , 2012 , 53, 2922-2924	2	3
20	Application of the systems chemistry approach on the ammonolysis of 1-ethoxycarbonyl- and 1-phenoxy carbonyl-3-(2-thienyl)oxindoles. A method to predict reactivity. <i>Journal of Organic Chemistry</i> , 2012 , 77, 7282-90	4.2	6
19	Synthesis and in vitro evaluation of oxindole derivatives as potential radioligands for 5-HT(7) receptor imaging with PET. <i>ACS Chemical Neuroscience</i> , 2012 , 3, 1002-7	5.7	19
18	New Manufacturing Procedure of Cetirizine. <i>Organic Process Research and Development</i> , 2012 , 16, 1279-1282	3.9	4
17	Convenient synthesis of 3-unsubstituted oxindole-1-carboxamides. <i>Tetrahedron</i> , 2012 , 68, 1427-1435	2.4	0
16	Optimization of (arylpiperazinylbutyl)oxindoles exhibiting selective 5-HT _{1A} receptor antagonist activity. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 6657-69	8.3	37
15	Structure Assignment of a Pharmacopeial Impurity of Meloxicam. <i>Organic Process Research and Development</i> , 2011 , 15, 339-342	3.9	
14	Synthesis of 4,6-Dichloro- and 4,6-Difluorophthalides: a Systematic Study on the Lithiation of 3,5-Dihalo-N,N-diisopropylbenzamides. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 1728-1735	3.2	3
13	Medicinal chemistry of 5-HT _{5A} receptor ligands: a receptor subtype with unique therapeutical potential. <i>Current Topics in Medicinal Chemistry</i> , 2010 , 10, 554-78	3	28
12	Manufacturing Synthesis of 5-Substituted Phthalides. <i>Organic Process Research and Development</i> , 2010 , 14, 617-622	3.9	20

11	Versatile synthesis of oxindole-1,3-dicarboxamides. <i>Tetrahedron</i> , 2010 , 66, 7017-7027	2.4	3
10	Manufacture of High-Purity Meloxicam via Its Novel Potassium Salt Monohydrate. <i>Organic Process Research and Development</i> , 2009 , 13, 567-572	3.9	26
9	(Phenylpiperazinyl-butyl)oxindoles as selective 5-HT ₇ receptor antagonists. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 2522-32	8.3	71
8	A New Addition Compound of Desloratadine with Carbon Dioxide. <i>Organic Process Research and Development</i> , 2008 , 12, 855-859	3.9	2
7	5-HT _{6/7} receptor antagonists facilitate dopamine release in the cochlea via a GABAergic disinhibitory mechanism. <i>Neurochemical Research</i> , 2008 , 33, 2364-72	4.6	13
6	Unexpected 7-Methylation of Oxindoles. <i>Heterocycles</i> , 2006 , 68, 539	0.8	1
5	New Routes to Oxindole Derivatives. <i>Monatshefte Für Chemie</i> , 2004 , 135, 697-711	1.4	14
4	Interpretation of substituent-induced ¹³ C NMR chemical shifts of oxindoles. <i>New Journal of Chemistry</i> , 2004 , 28, 1214-1220	3.6	4
3	New One-Pot Synthesis of 3-Alkyl- and 3-(β -Hydroxyalkyl)oxindoles from Isatins. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 3991-3996	3.2	20
2	Raney Nickel-Induced 3-Alkylation of Oxindole with Alcohols and Diols. <i>Synthesis</i> , 2002 , 2002, 595-597	2.9	16
1	Cytochrome P450 catalyzed nitric oxide synthesis: a theoretical study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2000 , 17, 759-67	3.6	12