Balzs Volk

List of Publications by Citations

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	(Phenylpiperazinyl-butyl)oxindoles as selective 5-HT7 receptor antagonists. *Journal of Medicinal Chemistry*, **2008**, 51, 2522-32	8.3	71
81	Optimization of (arylpiperazinylbutyl)oxindoles exhibiting selective 5-HT receptor antagonist activity. *Journal of Medicinal Chemistry*, **2011**, 54, 6657-69	8.3	37
80	Medicinal chemistry of 5-HT5A receptor ligands: a receptor subtype with unique therapeutical potential. *Current Topics in Medicinal Chemistry*, **2010**, 10, 554-78	3	28
79	Manufacture of High-Purity Meloxicam via Its Novel Potassium Salt Monohydrate. *Organic Process Research and Development*, **2009**, 13, 567-572	3.9	26
78	Evaluation of 3-Ethyl-3-(phenylpiperazinylbutyl)oxindoles as PET Ligands for the Serotonin 5-HT Receptor: Synthesis, Pharmacology, Radiolabeling, and in Vivo Brain Imaging in Pigs. *Journal of Medicinal Chemistry*, **2015**, 58, 3631-6	8.3	21
77	Manufacturing Synthesis of 5-Substituted Phthalides. *Organic Process Research and Development*, **2010**, 14, 617-622	3.9	20
76	New One-Pot Synthesis of 3-Alkyl- and 3-(Hydroxyalkyl)oxindoles from Isatins. *European Journal of Organic Chemistry*, **2003**, 2003, 3991-3996	3.2	20
75	A novel GABA(A) alpha 5 receptor inhibitor with therapeutic potential. *European Journal of Pharmacology*, **2015**, 764, 497-507	5.3	19
74	Synthesis and in vitro evaluation of oxindole derivatives as potential radioligands for 5-HT(7) receptor imaging with PET. *ACS Chemical Neuroscience*, **2012**, 3, 1002-7	5.7	19
73	Interactions of non-charged tadalafil stereoisomers with cyclodextrins: capillary electrophoresis and nuclear magnetic resonance studies. *Journal of Chromatography A*, **2014**, 1363, 348-55	4.5	17
72	Raney Nickel-Induced 3-Alkylation of Oxindole with Alcohols and Diols. *Synthesis*, **2002**, 2002, 595-597	2.9	16
71	Convenient synthesis of 1-aryl-9H-carboline-3-carbaldehydes and their transformation into dihydropyrimidinone derivatives by Biginelli reaction. *Tetrahedron*, **2014**, 70, 5711-5719	2.4	15
70	New Routes to Oxindole Derivatives. *Monatshefte Für Chemie*, **2004**, 135, 697-711	1.4	14
69	Synthetic study on the T3P -promoted one-pot preparation of 1-substituted-3,4-dihydro-carbolines by the reaction of tryptamine with carboxylic acids. *Tetrahedron Letters*, **2016**, 57, 1953-1957	2	14
68	5-HT6/7 receptor antagonists facilitate dopamine release in the cochlea via a GABAergic disinhibitory mechanism. *Neurochemical Research*, **2008**, 33, 2364-72	4.6	13
67	Propylphosphonic anhydride (T3P) mediated one-pot three-component synthesis of racemic dialkyl (2-substituted-3-oxo-2,3-dihydro-1H-isoindol-1-yl)phosphonates. *Tetrahedron*, **2016**, 72, 5091-5099	2.4	13
66	Recent Advances in the Synthesis of Carboline Alkaloids. *Molecules*, **2021**, 26,	4.8	13

65	Study on the propylphosphonic anhydride (T3P®) mediated Ugi-type three-component reaction. Efficient synthesis of an α-amino amide library. *Tetrahedron*, **2017**, 73, 70-77	2.4	12
64	Cytochrome P450 catalyzed nitric oxide synthesis: a theoretical study. *Journal of Biomolecular Structure and Dynamics*, **2000**, 17, 759-67	3.6	12
63	Synthesis of 4-unsubstituted 2H-1,2,3-benzothiadiazine 1,1-dioxides via ortho lithiation of protected benzaldehyde derivatives. *Tetrahedron*, **2014**, 70, 286-293	2.4	11
62	Synthesis of a new compound family, 1-aryl-3H-pyrrolo[2,1-d][1,2,5]triazepin-4(5H)-ones. *Tetrahedron*, **2014**, 70, 465-476	2.4	9
61	Continuous flow production in the final step of vortioxetine synthesis. Piperazine ring formation on a flow platform with a focus on productivity and scalability. *Journal of Flow Chemistry*, **2019**, 9, 101-113	3.3	8
60	First total synthesis of the β-carboline alkaloids trigonostemine A, trigonostemine B and a new synthesis of pityriacitrin and hyrtiosulawesine. *Tetrahedron Letters*, **2019**, 60, 1471-1475	2	8
59	Synthesis of Three New Tricyclic Ring Systems: Pyrrolotriazepines Condensed with an Imidazole, a Triazole, or a Tetrazole Ring. *Synlett*, **2015**, 26, 2418-2424	2.2	8
58	Study on the A3-coupling reaction catalyzed by readily available copper-containing minerals. Synthesis of propargylamines. *Tetrahedron Letters*, **2020**, 61, 151544	2	8
57	Efficient synthesis of a new compound family, 9-aryl-5 H -imidazo[2,1- d][1,2,5]triazepin-6(7 H)-ones. *Tetrahedron*, **2016**, 72, 5427-5432	2.4	8
56	Alkylation of 2H-1,2,3-benzothiadiazine 1,1-dioxides. Formation of a new family of mesoionic compounds. *Tetrahedron*, **2014**, 70, 2169-2174	2.4	7
55	Practical synthesis of two novel series of 1,3-disubstituted β-carboline derivatives. *Tetrahedron Letters*, **2018**, 59, 617-619	2	6
54	Synthesis and base-mediated rearrangement of 3-acetyl-2-methyl-3,4-dihydro-2H-1,2,3-benzothiadiazine 1,1-dioxides. *Tetrahedron*, **2016**, 72, 8463-8469	2.4	6
53	Application of the systems chemistry approach on the ammonolysis of 1-ethoxycarbonyl- and 1-phenoxycarbonyl-3-(2-thienyl)oxindoles. A method to predict reactivity. *Journal of Organic Chemistry*, **2012**, 77, 7282-90	4.2	6
52	Efficient synthesis of N b -thioacyltryptamine derivatives by a three-component Willgerodt–Kindler reaction, and their transformation to 1-substituted-3,4-dihydro-β-carbolines. *Tetrahedron Letters*, **2015**, 56, 5697-5700	2	5
51	Consecutive alkylation–reduction 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. *Tetrahedron*, **2015**, 71, 44-50	2.4	5
50	Development of In Situ Gelling Meloxicam-Human Serum Albumin Nanoparticle Formulation for Nose-to-Brain Application. *Pharmaceutics*, **2021**, 13,	6.4	5
49	Synthesis and further transformations of 8-chloro-3,4-dihydroisoquinoline. *Tetrahedron*, **2018**, 74, 7009-7017	2.4	5
48	Propylphosphonic anhydride (T3P®)-mediated three-component synthesis of hexahydrodibenzo[b,e][1,4]diazepin-1-one derivatives. *Chemistry of Heterocyclic Compounds*, **2020**, 56, 237-240	1.4	4

47	Convenient synthesis of 2-substituted 5,7-dihydro-6H-pyrrolo[2,3-d]pyrimidin-6-ones. *Monatshefte Für Chemie*, **2016**, 147, 767-773	1.4	4
46	Synthesis of 4-methyl-2H-1,2,3-benzothiadiazine 1,1-dioxides and their further transformation via alkylation and reduction steps. *Synthetic Communications*, **2019**, 49, 3475-3485	1.7	4
45	New Manufacturing Procedure of Cetirizine. *Organic Process Research and Development*, **2012**, 16, 1279-1282	3.8	4
44	Interpretation of substituent-induced 13C NMR chemical shifts of oxindoles. *New Journal of Chemistry*, **2004**, 28, 1214-1220	3.6	4
43	A Review of 2,3-Benzodiazepine-related Compounds: Diazepines and 1,2,5- Triazepines Fused with Five-membered Nitrogen Heterocycles. *Current Organic Synthesis*, **2018**, 15, 729-754	1.9	4
42	Lithiation of 2-aryl-2-methyl-1,3-dioxolanes with PMDTA-complexed butyllithium. *Tetrahedron*, **2017**, 73, 298-306	2.4	3
41	Development and Evaluation of Two Potential 5-HT Receptor PET Tracers: [F]ENL09 and [F]ENL10. *ACS Chemical Neuroscience*, **2019**, 10, 3961-3968	5.7	3
40	Synthesis of a new tetracyclic ring system: pyrrolotriazepinoquinazolinone derivatives. *Tetrahedron*, **2015**, 71, 6759-6763	2.4	3
39	Synthesis, Alkylation and Reduction of 4-Aryl-2H-1,2,3-benzothiadiazine 1,1-dioxides. *ChemistrySelect*, **2019**, 4, 8295-8300	1.8	3
38	New, Lithiation-Based Synthesis of Tofisopam, a 2,3-Benzodiazepine Type Anxiolytic Drug. *Heterocycles*, **2014**, 88, 287	0.8	3
37	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. *Tetrahedron Letters*, **2012**, 53, 2922-2924	2	3
36	New Synthetic Approach for the Preparation of 1-Aryl-3,4-dihydro□soquinolines by Liebeskind□rogl Reaction. *Synlett*, **2014**, 25, 2574-2578	2.2	3
35	Synthesis of 4,6-Dichloro- and 4,6-Difluorophthalides: a Systematic Study on the Lithiation of 3,5-Dihalo-N,N-diisopropylbenzamides. *European Journal of Organic Chemistry*, **2011**, 2011, 1728-1735	3.2	3
34	Versatile synthesis of oxindole-1,3-dicarboxamides. *Tetrahedron*, **2010**, 66, 7017-7027	2.4	3
33	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. *Letters in Organic Chemistry*, **2016**, 13, 531-535	0.6	3
32	First total synthesis of □-carboline alkaloid trigonostemine G and its derivatives. *Natural Product Research*, **2021**, 35, 72-79	2.3	3
31	Study on the cycloaddition reactions of pyrrolotriazepine derivatives with nitrile oxides. Synthesis of new fused tricyclic ring systems. *Tetrahedron*, **2017**, 73, 1711-1717	2.4	2
30	Synthesis of 1?-Aryl-1,3?-bi-□-carbolines and Their Saturated Counterparts. *Polycyclic Aromatic Compounds*, **2018**, 38, 131-140	1.3	2

29	Computational study on the synthesis of 1-phenyl-3,4-dihydro-β-carboline: T3P® -promoted one-pot formation from tryptamine vs. POCl3-mediated ring closure of Nb-benzoyltryptamine. The first DFT investigation of the Bischler-Napieralski reaction. *Computational and Theoretical Chemistry*, **2016**, 1097, 48-60	2	2
28	Synthesis of 8-Fluoro-3,4-dihydroisoquinoline and Its Transformation to 1,8-Disubstituted Tetrahydroisoquinolines. *Molecules*, **2018**, 23,	4.8	2
27	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. *Molecules*, **2016**, 22,	4.8	2
26	A New Addition Compound of Desloratadine with Carbon Dioxide. *Organic Process Research and Development*, **2008**, 12, 855-859	3.9	2
25	An interesting sidetrack in the tofisopam synthesis: lithium variant of a stereospecific Oppenauer oxidation. *Arkivoc*, **2015**, 2015, 127-138	0.9	2
24	Synthesis and Chemistry of 1,2,3-Benzothiadiazine 1,1-Dioxide Derivatives: A Comprehensive Overview. *Chemistry*, **2020**, 2, 674-690	2.1	2
23	Chan□am Arylation of Benzimidazole and its Derivatives in the Presence of Copper-Containing Minerals. *ChemistrySelect*, **2021**, 6, 802-807	1.8	2
22	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. *Journal of Organic Chemistry*, **2017**, 82, 1895-1903	4.2	1
21	Interesting transformations of methylenedioxy-substituted ortho-(pivaloylaminomethyl)benzaldehyde. *Monatshefte F□ Chemie*, **2019**, 150, 1121-1125	1.4	1
20	A novel tool for structure assignment of hydroxylated metabolites of (arylpiperazinylbutyl)oxindole derivatives based on relative HPLC retention times. *Journal of Pharmaceutical and Biomedical Analysis*, **2019**, 170, 102-111	3.5	1
19	First reported propylphosphonic anhydride (T3P®) mediated Robinson□abriel cyclization. Synthesis of natural and unnatural 5-(3-indolyl)oxazoles. *Tetrahedron Letters*, **2019**, 60, 1353-1356	2	1
18	Chemistry of an Unexplored Heterocyclic Ring System: Versatile Synthesis of 5-Aryl-2,3,4-benzothiadiazepine 2,2-dioxides. *Journal of Heterocyclic Chemistry*, **2015**, 52, 1136-1142	1.9	1
17	Stereo- and regiocontrolled synthesis of highly functionalized cyclopentanes with multiple chiral centers. *Synthetic Communications*, **2020**, 50, 1199-1209	1.7	1
16	Study on the Alkylation Reactions of N(7)-Unsubstituted 1,3-Diazaoxindoles. *Molecules*, **2017**, 22,	4.8	1
15	Synthesis of 1,4-diarylpyrrolotriazepine derivatives by two diverse strategies. *Monatshefte F□ Chemie*, **2016**, 147, 1975-1983	1.4	1
14	Unexpected 7-Methylation of Oxindoles. *Heterocycles*, **2006**, 68, 539	0.8	1
13	Aziridines and Azirines□used Ring Derivatives **2019**,		1
12	Synthesis of Indolo[2,3-]quinolin-6(7)-ones and Antimalarial Isoneocryptolepine. Computational Study on the Pd-Catalyzed Intramolecular C-H Arylation. *Journal of Organic Chemistry*, **2021**, 86, 128-145	4.2	1

11	Convenient synthesis of 3-unsubstituted oxindole-1-carboxamides. *Tetrahedron*, **2012**, 68, 1427-1435	2.4	0
10	Rearrangement of -(pivaloylaminomethyl)benzaldehydes: an experimental and computational study. *Beilstein Journal of Organic Chemistry*, **2020**, 16, 1636-1648	2.5	0
9	Mucoadhesive meloxicam-loaded nanoemulsions: Development, characterization and nasal applicability studies. *European Journal of Pharmaceutical Sciences*, **2022**, 175, 106229	5.1	0
8	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. *Mendeleev Communications*, **2019**, 29, 294-295	1.9	
7	Phosphanyl-Substituted Siloles: Synthesis, Optical and Electrochemical Studies and Computations. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1794-1802	2.3	
6	Experimental and Computational Study on the Debenzylation of (2,4-dimethoxybenzyl)-protected 1,3-diazaoxindoles. *Periodica Polytechnica: Chemical Engineering*, **2017**, 61, 264	1.3	
5	Synthesis of new tricyclic imidazotriazepine derivatives condensed with various heterocycles. *Molecular Diversity*, **2017**, 21, 903-914	3.1	
4	Structure Assignment of a Pharmacopeial Impurity of Meloxicam. *Organic Process Research and Development*, **2011**, 15, 339-342	3.9	
3	Basicity-Tuned Reactivity: -[1,2]-Wittig versus -[1,3]-Wittig Rearrangements of 3,4-Dihydro-2-1,2,3-benzothiadiazine 1,1-Dioxides. *Journal of Organic Chemistry*, **2021**, 86, 1685-1700	4.2	
2	Fragment-based labeling using condensation reactions of six potential 5-HT7R PET tracers. *Journal of Radioanalytical and Nuclear Chemistry*, **2020**, 326, 1749-1762	1.5	
1	Transformation of 2H-1,2,3-benzothiadiazine 1,1-dioxides variously substituted at the aromatic ring, via nucleophilic substitution and demethylation reactions. *Synthetic Communications*, **2020**, 50, 3413-3423	1.7	