Hans-JÃ¼rgen Federsel

List of Publications by Year
in descending order

40 papers	1,108 citations	430874 18 h-index	395702 33 g-index
43 all docs	43 docs citations	43 times ranked	1278 citing authors

#	Article	IF	Citations
1	Recent Advances in Asymmetric Hydrogenation Catalysis Utilizing Spiro and Other Rigid C-Stereogenic Phosphine Ligands. Journal of Organic Chemistry, 2022, 87, 1898-1924.	3.2	10
2	Taking the Green Road Towards Pharmaceutical Manufacturing. Synthesis, 2022, 54, 4257-4271.	2.3	3
3	Recent Trends in Enzyme Immobilizationâ€"Concepts for Expanding the Biocatalysis Toolbox. Molecules, 2021, 26, 2822.	3.8	71
4	Catalytic Câ€"H Arylations as a Tool for Making Pharmaceuticals. Organic Process Research and Development, 2015, 19, 259-259.	2.7	2
5	Route Design in the 21st Century: The ICSYNTH Software Tool as an Idea Generator for Synthesis Prediction. Organic Process Research and Development, 2015, 19, 357-368.	2.7	106
6	Invited Academic Review on Late-Stage Fluorination. Organic Process Research and Development, 2014, 18, 473-473.	2.7	0
7	In the Limelight: Carbonâ€"Heteroatom Coupling Chemistry. Organic Process Research and Development, 2014, 18, 179-179.	2.7	2
8	Invited Academic Review Focused on Catalytic Reductions. Organic Process Research and Development, 2014, 18, 288-288.	2.7	1
9	En route to full implementation: driving the green chemistry agenda in the pharmaceutical industry. Green Chemistry, 2013, 15, 3105.	9.0	32
10	Invited Academic Review. Organic Process Research and Development, 2013, 17, 750-750.	2.7	0
11	Regioisomerism in the Synthesis of a Chiral Aminotetralin Drug Compound: Unraveling Mechanistic Details and Diastereomer-Specific In-Depth NMR Investigations. Journal of Organic Chemistry, 2012, 77, 5503-5514.	3.2	4
12	In Praise of Collaboration: The INTENANT Success Story. Organic Process Research and Development, 2012, 16, 260-261.	2.7	5
13	Key Amino Acid Residues for Reversed or Improved Enantiospecificity of an Ï‰â€Transaminase. ChemCatChem, 2012, 4, 1167-1172.	3.7	45
14	Crystal structures of the Chromobacteriumâ€ƒviolaceumÏ‰â€transaminase reveal major structural rearrangements upon binding of coenzyme PLP. FEBS Journal, 2012, 279, 779-792.	4.7	108
15	Process R&D under the magnifying glass: Organization, business model, challenges, and scientific context. Bioorganic and Medicinal Chemistry, 2010, 18, 5775-5794.	3.0	25
16	How to conduct research in the pharmaceutical industry? Facing the dilemma: small, autonomous teams versus large, integrated centers. Expert Opinion on Drug Discovery, 2010, 5, 813-818.	5.0	3
17	Mechanism of the Asymmetric Sulfoxidation in the Esomeprazole Process: Effects of the Imidazole Backbone for the Enantioselection. Advanced Synthesis and Catalysis, 2009, 351, 903-919.	4.3	46
18	Chemical Process Research and Development in the 21st Century: Challenges, Strategies, and Solutions from a Pharmaceutical Industry Perspective. Accounts of Chemical Research, 2009, 42, 671-680.	15.6	65

#	Article	IF	Citations
19	An unbalanced portfolio. Drug News and Perspectives, 2009, 22, 287.	1.5	0
20	Optimization and Scale-up of a Pd-Catalyzed Aromatic Câ^'N Bond Formation: A Key Step in the Synthesis of a Novel 5-HT_{1B} Receptor Antagonist. Organic Process Research and Development, 2008, 12, 512-521.	2.7	36
21	Handing Over the Baton: Connecting Medicinal Chemistry with Process R&D. Drug News and Perspectives, 2008, 21, 193.	1.5	16
22	Chlorodifluoromethyl phenyl sulfone: a novel non-ozone-depleting substance-based difluorocarbene reagent for O- and N-difluoromethylations. Chemical Communications, 2007, , 5149.	4.1	89
23	SPECIAL FEATURE SECTION:ÂASYMMETRIC SYNTHESIS ON LARGE SCALE. Organic Process Research and Development, 2007, 11, 494-494.	2.7	1
24	Construction of a Chiral Central Nervous System (CNS)-Active Aminotetralin Drug Compound Based on a Synthesis Strategy Using Multitasking Properties of (S)-1-Phenylethylamine. Accounts of Chemical Research, 2007, 40, 1377-1384.	15.6	36
25	Factors influencing the selectivity in asymmetric oxidation of sulfides attached to nitrogen containing heterocycles. Chemical Communications, 2007, , 2187.	4.1	19
26	To Overcome the Hurdles. , 2007, , 111-135.		1
27	In search of sustainability: process R&D in light of current pharmaceutical industry challenges. Drug Discovery Today, 2006, 11, 966-974.	6.4	42
28	The Integration of Process R&D in Drug Discovery - Challenges and Opportunities. Combinatorial Chemistry and High Throughput Screening, 2006, 9, 79-86.	1.1	6
29	Asymmetry on large scale: the roadmap to stereoselective processes. Nature Reviews Drug Discovery, 2005, 4, 685-697.	46.4	85
30	Facing chirality in the 21st century: Approaching the challenges in the pharmaceutical industry. Chirality, 2003, 15, S128-S142.	2.6	69
31	Logistics of process R&D: transforming laboratory methods to manufacturing scale. Nature Reviews Drug Discovery, 2003, 2, 654-664.	46.4	37
32	Start small, think big â€" the art of process R&D. Nature Reviews Drug Discovery, 2002, 1, 1013-1013.	46.4	10
33	Drug discoverers â€"you need us!. Drug Discovery Today, 2001, 6, 397-398.	6.4	8
34	Drug discoverers â€" you need us! â€" Reply. Drug Discovery Today, 2001, 6, 1046-1047.	6.4	2
35	Building bridges from process R&D: from a customerâ€"supplier relationship to full partnership. Pharmaceutical Science & Technology Today, 2000, 3, 265-272.	0.7	10
36	Development of a Process for a Chiral Aminochroman Antidepressant:â€‰ A Case Story. Organic Process Research and Development, 2000, 4, 362-369.	2.7	16

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37	Dichloromethane as reactant in synthesis: an expedient transformation of prolinamide to a novel pyrrolo[1,2-c]imidazolone. Journal of Organic Chemistry, 1990, 55, 2254-2256.	3.2	37
38	An Efficient Synthesis of a New, Chiral 2',6'-Pipecoloxylidide Local Anaesthetic Agent.. Acta Chemica Scandinavica, 1987, 41b, 757-761.	0.7	21
39	A novel base-induced ring expansion of quaternized heterocycles. Tetrahedron Letters, 1980, 21, 2429-2432.	1.4	23
40	Rapid Rearrangement of Quaternized Oxazoles and Thiazoles through Base Treatment. Heterocycles, 1980, 14, 33.	0.7	6