Danny Verboekend

List of Publications by Year
in descending order

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31	4,220	218677	395702
papers	citations	26 h-index	33 g-index

35	35	35	3708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A sustainable wood biorefinery for lowâ€“carbon footprint chemicals production. Science, 2020, 367, 1385-1390.	12.6	631
2	Potential and challenges of zeolite chemistry in the catalytic conversion of biomass. Chemical Society Reviews, 2016, 45, 584-611.	38.1	619
3	Design of hierarchical zeolite catalysts by desilication. Catalysis Science and Technology, 2011, 1, 879.	4.1	576
4	Hierarchical Y and USY Zeolites Designed by Postâ€Synthetic Strategies. Advanced Functional Materials, 2012, 22, 916-928.	14.9	283
5	Desilication Mechanism Revisited: Highly Mesoporous Allâ€Silica Zeolites Enabled Through Poreâ€Directing Agents. Chemistry - A European Journal, 2011, 17, 1137-1147.	3.3	235
6	Full Compositional Flexibility in the Preparation of Mesoporous MFI Zeolites by Desilication. Journal of Physical Chemistry C, 2011, 115, 14193-14203.	3.1	230
7	Mesopore Formation in USY and Beta Zeolites by Base Leaching: Selection Criteria and Optimization of Pore-Directing Agents. Crystal Growth and Design, 2012, 12, 3123-3132.	3.0	144
8	Mesoporous ZSM-22 zeolite obtained by desilication: peculiarities associated with crystal morphology and aluminium distribution. CrystEngComm, 2011, 13, 3408.	2.6	140
9	Hierarchical FAUâ€and LTAâ€Type Zeolites by Postâ€Synthetic Design: A New Generation of Highly Efficient Base Catalysts. Advanced Functional Materials, 2013, 23, 1923-1934.	14.9	125
10	Alkylphenols to phenol and olefins by zeolite catalysis: a pathway to valorize raw and fossilized lignocellulose. Green Chemistry, 2016, 18, 297-306.	9.0	105
11	Hierarchical Silicoaluminophosphates by Postsynthetic Modification: Influence of Topology, Composition, and Silicon Distribution. Chemistry of Materials, 2014, 26, 4552-4562.	6.7	91
12	Properties and Functions of Hierarchical Ferrierite Zeolites Obtained by Sequential Post-Synthesis Treatments. Chemistry of Materials, 2010, 22, 4679-4689.	6.7	84
13	Expanding the Horizons of Hierarchical Zeolites: Beyond Laboratory Curiosity towards Industrial Realization. ChemCatChem, 2011, 3, 1731-1734.	3.7	84
14	Towards a Sustainable Manufacture of Hierarchical Zeolites. ChemSusChem, 2014, 7, 753-764.	6.8	81
15	Hierarchical high-silica zeolites as superior base catalysts. Chemical Science, 2014, 5, 677-684.	7.4	77
16	Catalyst Design by NH₄OH Treatment of USY Zeolite. Advanced Functional Materials, 2015, 25, 7130-7144.	14.9	76
17	Shape selectivity vapor-phase conversion of lignin-derived 4-ethylphenol to phenol and ethylene over acidic aluminosilicates: Impact of acid properties and pore constraint. Applied Catalysis B: Environmental, 2018, 234, 117-129.	20.2	75
18	Hierarchical Zeolites by Desilication: Occurrence and Catalytic Impact of Recrystallization and Restructuring. Crystal Growth and Design, 2013, 13, 5025-5035.	3.0	74

#	Article	IF	Citations
19	Towards more efficient monodimensional zeolite catalysts: n-alkane hydro-isomerisation on hierarchical ZSM-22. Catalysis Science and Technology, 2011, 1, 1331.	4.1	72
20	Interplay of Properties and Functions upon Introduction of Mesoporosity in ITQâ€4 Zeolite. Advanced Functional Materials, 2010, 20, 1441-1450.	14.9	69
21	Decoupling porosity and compositional effects on desilicated ZSM-5 zeolites for optimal alkylation performance. Catalysis Science and Technology, 2012, 2, 759.	4.1	64
22	Stabilized hierarchical USY zeolite catalysts for simultaneous increase in diesel and LPG olefinicity during catalytic cracking. Catalysis Science and Technology, 2013, 3, 972.	4.1	64
23	Propylphenol to Phenol and Propylene over Acidic Zeolites: Role of Shape Selectivity and Presence of Steam. ACS Catalysis, 2018, 8, 7861-7878.	11.2	59
24	Aromatics Production from Lignocellulosic Biomass: Shape Selective Dealkylation of Lignin-Derived Phenolics over Hierarchical ZSM-5. ACS Sustainable Chemistry and Engineering, 2020, 8, 8713-8722.	6.7	45
25	Potential of Sustainable Hierarchical Zeolites in the Valorization of Î±â€Pinene. ChemSusChem, 2015, 8, 1197-1205.	6.8	41
26	Enhanced Acidity and Accessibility in Al-MCM-41 through Aluminum Activation. Chemistry of Materials, 2016, 28, 7731-7743.	6.7	32
27	Hierarchical Zeolites Overcome all Obstacles: Next Stop Industrial Implementation. Chimia, 2022, 67, 327.	0.6	29
28	Synthetic and Catalytic Potential of Amorphous Mesoporous Aluminosilicates Prepared by Postsynthetic Aluminations of Silica in Aqueous Media. ChemCatChem, 2018, 10, 1385-1397.	3.7	7
29	Hierarchical Zeolite: Catalyst Design by NH₄OH Treatment of USY Zeolite (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overlo	14.9	3
30	Towards a Sustainable Manufacture of Hierarchical Zeolites. ChemSusChem, 2014, 7, 653-653.	6.8	1
31	Inside Cover: Desilication Mechanism Revisited: Highly Mesoporous All-Silica Zeolites Enabled Through Pore-Directing Agents (Chem. Eur. J. 4/2011). Chemistry - A European Journal, 2011, 17, 1062-1062.	3.3	0