

Niklas Hedin

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142
papers

5,164
citations

40
h-index

68
g-index

153
ext. papers

5,838
ext. citations

6.4
avg, IF

5.95
L-index

#	Paper	IF	Citations
142	Adsorbents for the post-combustion capture of CO ₂ using rapid temperature swing or vacuum swing adsorption. <i>Applied Energy</i> , 2013 , 104, 418-433	10.7	287
141	Proto-calcite and proto-vaterite in amorphous calcium carbonates. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8889-91	16.4	232
140	Mechanisms and kinetics for sorption of CO ₂ on bicontinuous mesoporous silica modified with n-propylamine. <i>Langmuir</i> , 2011 , 27, 11118-28	4	216
139	Structuring adsorbents and catalysts by processing of porous powders. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1643-1666	6	208
138	Sorbents for CO ₂ capture from flue gas--aspects from materials and theoretical chemistry. <i>Nanoscale</i> , 2010 , 2, 1819-41	7.7	202
137	Activated carbons prepared from hydrothermally carbonized waste biomass used as adsorbents for CO ₂ . <i>Applied Energy</i> , 2013 , 112, 526-532	10.7	175
136	Zeolites and related sorbents with narrow pores for CO ₂ separation from flue gas. <i>RSC Advances</i> , 2014 , 4, 14480-14494	3.7	169
135	Carbon dioxide capture on amine-rich carbonaceous materials derived from glucose. <i>ChemSusChem</i> , 2010 , 3, 840-5	8.3	158
134	Temperature-induced uptake of CO ₂ and formation of carbamates in mesoporous silica modified with n-propylamines. <i>Langmuir</i> , 2010 , 26, 10013-24	4	135
133	Strong and binder free structured zeolite sorbents with very high CO ₂ -over-N ₂ selectivities and high capacities to adsorb CO ₂ rapidly. <i>Energy and Environmental Science</i> , 2012 , 5, 7664	35.4	122
132	NaKA sorbents with high CO ₂ -over-N ₂ selectivity and high capacity to adsorb CO ₂ . <i>Chemical Communications</i> , 2010 , 46, 4502-4	5.8	120
131	In situ synthesis of an imidazolate-4-amide-5-imidate ligand and formation of a microporous zinc-organic framework with H ₂ - and CO ₂ -storage ability. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1258-62	16.4	120
130	Synthesis of microporous organic polymers with high CO ₂ -over-N ₂ selectivity and CO ₂ adsorption. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3406	13	115
129	Multinuclear Solid-State NMR Studies of Ordered Mesoporous Bioactive Glasses. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5552-5562	3.8	111
128	PFG NMR self-diffusion of small hydrocarbons in high silica DDR, CHA and LTA structures. <i>Microporous and Mesoporous Materials</i> , 2008 , 109, 327-334	5.3	109
127	Adsorption kinetics for CO ₂ on highly selective zeolites NaKA and nano-NaKA. <i>Applied Energy</i> , 2013 , 112, 1326-1336	10.7	97
126	Microporous adsorbents for CO ₂ capture [a case for microporous polymers?]. <i>Materials Today</i> , 2014 , 17, 397-403	21.8	94

125	Structure of a surfactant-templated silicate framework in the absence of 3d crystallinity. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9425-32	16.4	86
124	Nanostructural features of demosponge biosilica. <i>Journal of Structural Biology</i> , 2003 , 144, 271-81	3.4	80
123	Selective separation of CO ₂ and CH ₄ for biogas upgrading on zeolite NaKA and SAPO-56. <i>Applied Energy</i> , 2016 , 162, 613-621	10.7	75
122	Carbon dioxide adsorption on mesoporous silica surfaces containing amine-like motifs. <i>Applied Energy</i> , 2010 , 87, 2907-2913	10.7	75
121	A Porphyrinic Zirconium Metal-Organic Framework for Oxygen Reduction Reaction: Tailoring the Spacing between Active-Sites through Chain-Based Inorganic Building Units. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15386-15395	16.4	65
120	Interpenetrated metal-organic frameworks and their uptake of CO ₂ at relatively low pressures. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10345		64
119	Quantification of chemisorption and physisorption of carbon dioxide on porous silica modified by propylamines: Effect of amine density. <i>Microporous and Mesoporous Materials</i> , 2012 , 159, 42-49	5.3	63
118	Water as the Key to Proto-Aragonite Amorphous CaCO ₃ . <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8117-20	16.4	63
117	Proto-Calcite and Proto-Vaterite in Amorphous Calcium Carbonates. <i>Angewandte Chemie</i> , 2010 , 122, 9073-9075	3.6	61
116	Aluminophosphates for CO ₂ separation. <i>ChemSusChem</i> , 2011 , 4, 91-7	8.3	60
115	Adsorption of CO ₂ on a micro-/mesoporous polyimine modified with tris(2-aminoethyl)amine. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16229-16234	13	56
114	Silicoaluminophosphates as CO ₂ sorbents. <i>Microporous and Mesoporous Materials</i> , 2012 , 156, 90-96	5.3	56
113	Nonsurfactant supramolecular synthesis of ordered mesoporous silica. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3189-91	16.4	56
112	Activated Carbons for Water Treatment Prepared by Phosphoric Acid Activation of Hydrothermally Treated Beer Waste. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15389-15397	3.9	51
111	Temperature imaging by 1H NMR and suppression of convection in NMR probes. <i>Journal of Magnetic Resonance</i> , 1998 , 131, 126-30	3	50
110	Selective NMR measurements of homonuclear scalar couplings in isotopically enriched solids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16982-91	3.4	48
109	PFG NMR self-diffusion of propylene in ITQ-29, CaA and NaCaA: Window size and cation effects. <i>Microporous and Mesoporous Materials</i> , 2007 , 98, 182-188	5.3	46
108	Shape Changes of C16TABr Micelles on Benzene Solubilization. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9631-9639	3.4	45

107	Dynamics and Disorder in Surfactant-Templated Silicate Layers Studied by Solid-State NMR Dephasing Times and Correlated Line Shapes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9145-9154	3.8	44
106	Disordered amorphous calcium carbonate from direct precipitation. <i>CrystEngComm</i> , 2015 , 17, 4842-4849	3.3	43
105	Growth of C12E8 Micelles with Increasing Temperature. A Convection-Compensated PGSE NMR Study. <i>Langmuir</i> , 2000 , 16, 7548-7550	4	43
104	Enantioselective Heterogeneous Synergistic Catalysis for Asymmetric Cascade Transformations. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 2485-2492	5.6	42
103	Sensitivity considerations in polarization transfer and filtering using dipole-dipole couplings: implications for biomineral systems. <i>Solid State Nuclear Magnetic Resonance</i> , 2006 , 29, 170-82	3.1	41
102	Carbon dioxide sorbents with propylamine groups-silica functionalized with a fractional factorial design approach. <i>Langmuir</i> , 2011 , 27, 3822-34	4	40
101	High-Performance Magnetic Activated Carbon from Solid Waste from Lignin Conversion Processes. 1. Their Use As Adsorbents for CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3087-3095	8.3	38
100	Interactions of charged porphyrins with nonionic triblock copolymer hosts in aqueous solutions. <i>Langmuir</i> , 2004 , 20, 10399-412	4	36
99	Iron oxide nanoparticles embedded in activated carbons prepared from hydrothermally treated waste biomass. <i>ChemSusChem</i> , 2014 , 7, 875-82	8.3	34
98	Hydrothermal Phase Transformation of Bicontinuous Cubic Mesoporous Material AMS-6. <i>Chemistry of Materials</i> , 2008 , 20, 3857-3866	9.6	32
97	In Situ Synthesis of an Imidazolate-4-amide-5-imidate Ligand and Formation of a Microporous Zinc-Organic Framework with H ₂ -and CO ₂ -Storage Ability. <i>Angewandte Chemie</i> , 2010 , 122, 1280-1284	3.6	30
96	Spherical and Porous Particles of Calcium Carbonate Synthesized with Food Friendly Polymer Additives. <i>Crystal Growth and Design</i> , 2015 , 15, 3609-3616	3.5	29
95	Fast Diffusion of the Cl ⁻ Ion in the Headgroup Region of an Oppositely Charged Micelle. A ³⁵ Cl NMR Spin Relaxation Study. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8544-8547	3.4	29
94	Self-assembly mechanism of folate-templated mesoporous silica. <i>Langmuir</i> , 2013 , 29, 12003-12	4	25
93	Molecular insight into the mode-of-action of phosphonate monolayers as active functions of hybrid metal oxide adsorbents. Case study in sequestration of rare earth elements. <i>RSC Advances</i> , 2015 , 5, 24575-24585	2.7	25
92	An isoreticular family of microporous metal-organic frameworks based on zinc and 2-substituted imidazolate-4-amide-5-imidate: syntheses, structures and properties. <i>Chemistry - A European Journal</i> , 2012 , 18, 11630-40	4.8	23
91	Controlling the Assembly of Nanocrystalline ZnO Films by a Transient Amorphous Phase in Solution. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5373-5383	3.8	23
90	Kinetic control of particle-mediated calcium carbonate crystallization. <i>CrystEngComm</i> , 2011 , 13, 4641	3.3	22

89	Microporous organic polymers as CO ₂ adsorbents: advances and challenges. <i>Materials Today Advances</i> , 2020 , 6, 100052	7.4	21
88	K ⁺ exchanged zeolite ZK-4 as a highly selective sorbent for CO ₂ . <i>Langmuir</i> , 2014 , 30, 9682-90	4	21
87	A semiconducting microporous framework of Cd ₆ Ag ₄ (SPh) ₁₆ clusters interlinked using rigid and conjugated bipyridines. <i>Chemical Communications</i> , 2014 , 50, 3710-2	5.8	21
86	Highly efficient adsorption of benzothiophene from model fuel on a metal-organic framework modified with dodeca-tungstophosphoric acid. <i>Chemical Engineering Journal</i> , 2019 , 362, 30-40	14.7	21
85	Role of Ion Mobility in Molecular Sieving of CO ₂ over N ₂ with Zeolite NaKA. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24259-24267	3.8	20
84	Synergetic contribution of nitrogen and fluorine species in porous carbons as metal-free and bifunctional oxygen electrocatalysts for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120448	21.8	20
83	Adsorption of CnTABr surfactants on activated carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 62-70	5.1	19
82	Reactive Oxygenated Species Generated on Iodide-Doped BiVO ₄ /BaTiO ₃ Heterostructures with Ag/Cu Nanoparticles by Coupled Piezophototronic Effect and Plasmonic Excitation. <i>Advanced Functional Materials</i> , 2021 , 31, 2009594	15.6	19
81	Nature of Chemisorbed CO ₂ in Zeolite A. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21497-21503	3.8	18
80	Aluminophosphate monoliths with high CO ₂ -over-N ₂ selectivity and CO ₂ capture capacity. <i>RSC Advances</i> , 2014 , 4, 55877-55883	3.7	18
79	The Use of Porous Palladium(II)-polyimine in Cooperatively- catalyzed Highly Enantioselective Cascade Transformations. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 2150-2156	5.6	17
78	Perspectives on NMR studies of CO ₂ adsorption. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 33, 53-62	7.6	17
77	Effects of carbon dioxide captured from ambient air on the infrared spectra of supported amines. <i>Vibrational Spectroscopy</i> , 2016 , 87, 215-221	2.1	17
76	Highly selective uptake of carbon dioxide on the zeolite [Na _{10.2} KCs _{0.8}]-LTA- a possible sorbent for biogas upgrading. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16080-3	3.6	17
75	Porous tablets of crystalline calcium carbonate via sintering of amorphous nanoparticles. <i>CrystEngComm</i> , 2013 , 15, 1257	3.3	17
74	Fast Diffusion of Br ⁻ Ions on a Micellar Surface. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9640-9644	3.4	16
73	Assessment of the effects of process water recirculation on the surface chemistry and morphology of hydrochar. <i>Renewable Energy</i> , 2020 , 155, 1173-1180	8.1	16
72	High-Performance Magnetic Activated Carbon from Solid Waste from Lignin Conversion Processes. 2. Their Use as NiMo Catalyst Supports for Lignin Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11226-11237	8.3	15

71	Stepwise assembly of a semiconducting coordination polymer [Cd ₈ S(SPh) ₁₄ (DMF)(bpy)] _n and its photodegradation of organic dyes. <i>Dalton Transactions</i> , 2015 , 44, 6400-5	4.3	15
70	Embedded proteins and sacrificial bonds provide the strong adhesive properties of gastroliths. <i>Nanoscale</i> , 2012 , 4, 3910-6	7.7	15
69	Ostwald Ripening of an Emulsion Monitored by PGSE NMR. <i>Langmuir</i> , 2001 , 17, 4746-4752	4	15
68	CO ₂ -Induced Displacement of Na ⁺ and K ⁺ in Zeolite [NaK]-A. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17211-17220	3.8	14
67	Noise Reduction in Quadrupolar Echo Spectra at Short Echo Times. <i>Journal of Magnetic Resonance</i> , 2001 , 152, 214-216	3	14
66	Electrochemical Denitrification and Oxidative Dehydrogenation of Ethylbenzene over N-doped Mesoporous Carbon: Atomic Level Understanding of Catalytic Activity by ¹⁵ N NMR Spectroscopy. <i>Chemistry of Materials</i> , 2020 , 32, 7263-7273	9.6	14
65	Introducing the crystalline phase of dicalcium phosphate monohydrate. <i>Nature Communications</i> , 2020 , 11, 1546	17.4	13
64	Heterogenized Wilkinson-Type Catalyst for Transfer Hydrogenation of Carbonyl Compounds. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 4409-4414	3.2	13
63	Transport-Mediated Control of Particles of Calcium Carbonate. <i>Crystal Growth and Design</i> , 2009 , 9, 4581-4583	3.5	13
62	UV-Visible and Plasmonic Nanospectroscopy of the CO ₂ Adsorption Energetics in a Microporous Polymer. <i>Analytical Chemistry</i> , 2015 , 87, 10161-5	7.8	12
61	Tailored activated carbons for supercapacitors derived from hydrothermally carbonized sugars by chemical activation. <i>RSC Advances</i> , 2016 , 6, 110629-110641	3.7	12
60	A mechanistic study of the formation of mesoporous structures from in situ AC conductivity measurements. <i>Langmuir</i> , 2007 , 23, 9875-81	4	12
59	Site-Specific Adsorption of CO ₂ in Zeolite NaK-A. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27005-27015	3.8	12
58	Strong discs of activated carbons from hydrothermally carbonized beer waste. <i>Carbon</i> , 2014 , 78, 521-531	10.4	11
57	Deposition of silica nanoparticles onto alumina measured by optical reflectometry and quartz crystal microbalance with dissipation techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 443, 384-390	5.1	11
56	Perspectives on the adsorption of CO ₂ on amine-modified silica studied by infrared spectroscopy. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019 , 16, 13-19	7.9	11
55	Microporous Humins Prepared from Sugars and Bio-Based Polymers in Concentrated Sulfuric Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1018-1027	8.3	11
54	Ultramicroporous CO ₂ adsorbents with tunable mesopores based on polyimines synthesized under off-stoichiometric conditions. <i>Microporous and Mesoporous Materials</i> , 2016 , 222, 80-86	5.3	10

53	Sustainability of microporous polymers and their applications. <i>Science China Chemistry</i> , 2017 , 60, 1033-1055	9.5	10
52	Secondary structure conversions of Mycobacterium tuberculosis ribonucleotide reductase protein R2 under varying pH and temperature conditions. <i>Biophysical Chemistry</i> , 2008 , 137, 43-8	3.5	10
51	Effects of Pressure and the Addition of a Rejected Material from Municipal Waste Composting on the Pyrolysis of Two-Phase Olive Mill Waste. <i>Energy & Fuels</i> , 2016 , 30, 8055-8064	4.1	10
50	Microporous Humins Synthesized in Concentrated Sulfuric Acid Using 5-Hydroxymethyl Furfural. <i>ACS Omega</i> , 2018 , 3, 8537-8545	3.9	9
49	Highly Porous Hypercrosslinked Polymers Derived from Biobased Molecules. <i>ChemSusChem</i> , 2019 , 12, 839-847	8.3	9
48	Hydrophobic Porous Polyketimines for the Capture of CO. <i>ChemPlusChem</i> , 2016 , 81, 58-63	2.8	8
47	Intraparticle transport and release of dextran in silica spheres with cylindrical mesopores. <i>Langmuir</i> , 2010 , 26, 466-70	4	8
46	Effects of hydrothermal carbonization conditions on the textural and electrical properties of activated carbons. <i>Carbon</i> , 2016 , 107, 619-621	10.4	8
45	Wasser als Schlüssel zu amorphem Proto-Aragonit-CaCO ₃ . <i>Angewandte Chemie</i> , 2016 , 128, 8249-8252	3.6	8
44	Influence of pressure and temperature on key physicochemical properties of corn stover-derived biochar. <i>Fuel</i> , 2016 , 186, 525-533	7.1	8
43	Cyclopalladated Azolinked Porous Polymers in C-C Bond Forming Reactions. <i>ChemistrySelect</i> , 2016 , 1, 5801-5804	1.8	7
42	Nanocrystalline TON-type zeolites synthesized under static conditions. <i>Microporous and Mesoporous Materials</i> , 2018 , 256, 84-90	5.3	6
41	CO ₂ selective NaMg-CTS-1 and its structural formation from the titanium silicate based molecule sieve NaMg-ETS-4. <i>Microporous and Mesoporous Materials</i> , 2014 , 198, 63-73	5.3	6
40	Structural variations in mesoporous materials with cubic P6mm symmetry. <i>Microporous and Mesoporous Materials</i> , 2010 , 133, 27-35	5.3	6
39	Selective Adsorption of CO ₂ on Zeolites NaK-ZK-4 with Si/Al of 1.82.8. <i>ACS Omega</i> , 2020 , 5, 25371-25380	3.9	6
38	Upgrading of raw biogas into biomethane with structured nano-sized zeolite [NaK]-A adsorbents in a PVSA unit. <i>Energy Procedia</i> , 2019 , 158, 6715-6722	2.3	5
37	Insights into the Exfoliation Process of VO ₂ Nanosheet Formation Using Real-Time V NMR. <i>ACS Omega</i> , 2019 , 4, 10899-10905	3.9	5
36	Effects of Metal Ions, Metal, and Metal Oxide Particles on the Synthesis of Hydrochars. <i>ACS Omega</i> , 2020 , 5, 5601-5607	3.9	5

35	Microporous pure-silica IZM-2. <i>Microporous and Mesoporous Materials</i> , 2017 , 237, 222-227	5.3	5
34	Spectral deconvolution of NMR cross polarization data sets. <i>Solid State Nuclear Magnetic Resonance</i> , 2009 , 35, 208-13	3.1	5
33	Automated sample preparation station for studying self-diffusion in porous solids with NMR spectroscopy. <i>Review of Scientific Instruments</i> , 2006 , 77, 035114	1.7	5
32	Lightweight foams of amine-rich organosilica and cellulose nanofibrils by foaming and controlled condensation of aminosilane. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2220-2229	7.8	5
31	Chemisorption of CO ₂ on diaminated silica as bicarbonates and different types of carbamate ammonium ion pairs. <i>Materials Advances</i> , 2021 , 2, 448-454	3.3	5
30	Temperature-induced formation of strong gels of acrylamide-based polyelectrolytes. <i>Journal of Colloid and Interface Science</i> , 2009 , 337, 46-53	9.3	4
29	Accurate intensities of broad NMR lines from composite pulse experiments. <i>Journal of Magnetic Resonance</i> , 2000 , 142, 32-6	3	4
28	Semiconducting Nanocrystalline Bismuth Oxochloride (BiOCl) for Photocatalytic Reduction of CO ₂ . <i>Catalysts</i> , 2020 , 10, 998	4	4
27	Activated Carbons from Hydrochars Prepared in Milk. <i>Scientific Reports</i> , 2019 , 9, 16956	4.9	4
26	Local energy decomposition analysis and molecular properties of encapsulated methane in fullerene (CH@C). <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21554-21567	3.6	4
25	Semiconducting piezoelectric heterostructures for piezo- and piezophotocatalysis. <i>Nano Energy</i> , 2022 , 96, 107141	17.1	4
24	Efficient Production of Solar Hydrogen Peroxide Using Piezoelectric Polarization and Photoinduced Charge Transfer of Nanopiezoelectrics Sensitized by Carbon Quantum Dots.. <i>Advanced Science</i> , 2022 , e2105792	13.6	4
23	Silicoaluminophosphate (SAPO)-Templated Activated Carbons. <i>ACS Omega</i> , 2019 , 4, 9889-9895	3.9	3
22	Indications that Amorphous Calcium Carbonates Occur in Pathological Mineralisation of Urinary Stone from a Guinea Pig. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 84	2.4	3
21	Pd-promoted heteropolyacid on mesoporous zirconia as a stable and bifunctional catalyst for oxidation of thiophenes. <i>Fuel</i> , 2021 , 310, 122462	7.1	3
20	Fast Catalytic Esterification Using a Hydrophobized Zr-MOF with Acidic Ionic Liquid Linkers. <i>ChemistrySelect</i> , 2020 , 5, 1153-1156	1.8	2
19	Dispersed Uniform Nanoparticles from a Macroscopic Organosilica Powder. <i>Langmuir</i> , 2018 , 34, 2274-2281	4	2
18	RNA as a Precursor to N-Doped Activated Carbon. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3815-3825	6.1	2

17	Enhanced Sunlight-Driven Reactive Species Generation via Polarization Field in Nanopiezoelectric Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29691-29707	9.5	2
16	Insights into Functionalization of Metal-Organic Frameworks Using In Situ NMR Spectroscopy. <i>Scientific Reports</i> , 2018 , 8, 17530	4.9	2
15	Adsorption of Carbonyl Sulfide on Propylamine Tethered to Porous Silica. <i>Langmuir</i> , 2018 , 34, 7708-7713		2
14	Macroscopic rods from assembled colloidal particles of hydrothermally carbonized glucose and their use as templates for silicon carbide and tricopper silicide. <i>Journal of Colloid and Interface Science</i> , 2021 , 602, 480-489	9.3	2
13	Intracrystalline Transport Barriers Affecting the Self-Diffusion of CH in Zeolites [Na]-A and [NaK]-A. <i>Langmuir</i> , 2019 , 35, 12971-12978	4	1
12	Core-Shell and Hollow Particles of Carbon and SiC Prepared from Hydrochar. <i>Materials</i> , 2019 , 12,	3.5	1
11	Electrochemical Carbon Dioxide Reduction on Femtosecond Laser-Processed Copper Electrodes: Effect on the Liquid Products by Structuring and Doping. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5927-5934	6.1	1
10	Graphitic nitrogen in carbon catalysts is important for the reduction of nitrite as revealed by naturally abundant N NMR spectroscopy. <i>Dalton Transactions</i> , 2021 , 50, 6857-6866	4.3	1
9	Mesomorphic solid-like structures of sulfated extra-cellular polysaccharide-CnTAB compounds 1999 , 140-145		1
8	Ammonium-Carbamate-Rich Organogels for the Preparation of Amorphous Calcium Carbonates. <i>Minerals (Basel, Switzerland)</i> , 2017 , 7, 110	2.4	0
7	Computational insight into the hydrogenation of CO ₂ and carbamic acids to methanol by a ruthenium(II)-based catalyst: The role of amino (NH) ligand group. <i>Molecular Catalysis</i> , 2021 , 506, 111544	2.3	0
6	Blue hydrochars formed on hydrothermal carbonization of glucose using an iron catalyst. <i>Carbon Trends</i> , 2022 , 100172	0	0
5	Macroscopic Phase Separation Kinetics of TPPS4 J-aggregate Solutions Analyzed with Confocal Microscopy. <i>Microscopy and Microanalysis</i> , 2006 , 12, 684-685	0.5	
4	Selective Adsorption of CO on Zeolites NaK-ZK-4 with Si/Al of 1.8-2.8. <i>ACS Omega</i> , 2020 , 5, 25371-25380	3.9	
3	Biochar-based Carbon Materials for Energy-Storage Applications 2020 , 165-181		
2	Biochar-based Carbon Materials for Adsorptive Separation and Applications in Catalysis 2020 , 131-163		
1	Synthesis of SAPO-56 using N,N,N',N'-tetramethyl-1,6-hexanediamine and co-templates based on primary, secondary, and tertiary amines. <i>Inorganica Chimica Acta</i> , 2021 , 525, 120443	2.7	