Heriberto Pfeiffer

List of Publications by Year
in descending order

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166 papers	5,084 citations	100601 38 h-index	134545 62 g-index
169 all docs	169 docs citations	169 times ranked	3535 citing authors

#	Article	IF	Citations
1	3D porous Ca-modified Mg-Zr mixed metal oxide for fluoride adsorption. Chemical Engineering Journal, 2022, 428, 131371.	6.6	52
2	Unraveling the CO and CO2 reactivity on Li2MnO3: Sorption and catalytic analyses. Chemical Engineering Journal, 2022, 428, 131998.	6.6	13
3	Experimental and theoretical analysis revealing the underlying chemistry accounting for the heterogeneous transesterification reaction in Na2SiO3 and Li2SiO3 catalysts. Renewable Energy, 2022, 184, 845-856.	4.3	6
4	A new kinetic model for CO2 capture on sodium zirconate (Na2ZrO3): An analysis under different flow rates. Journal of CO2 Utilization, 2022, 56, 101862.	3.3	6
5	Highly efficient CO2 permeation using a new dense dual-phase ceramic membrane prepared with Ce0.8Sm0.2O2â^Îˆâ€“Pr0.6Sr0.4FeO3â^Îˆ as precursors. Bulletin of Materials Science, 2022, 45, 1.	0.8	1
6	LaNiO3 Perovskite Synthesis through the EDTAâ€“Citrate Complexing Method and Its Application to CO Oxidation. Catalysts, 2022, 12, 57.	1.6	7
7	Introduction to CO₂ capture, utilization and storage (CCUS). Reaction Chemistry and Engineering, 2022, 7, 487-489.	1.9	8
8	Enhanced CO2 capture over Li-containing Î²-NaFeO2 materials: Effect of lithium nitrate addition. Fuel, 2022, 324, 124605.	3.4	4
9	Investigation of H2 production via an integrated pathway of consecutive CO oxidation and dry methane reforming in the presence of Co3O4@HNTs catalyst. Applied Nanoscience (Switzerland), 2022, 12, 2459-2476.	1.6	1
10	High-temperature CO₂ perm-selectivity of yttrium-doped SDC ceramicâ€“carbonate dual-phase membranes. Reaction Chemistry and Engineering, 2021, 6, 321-334.	1.9	2
11	Lithium cuprate, a multifunctional material for NO selective catalytic reduction by CO with subsequent carbon oxide capture at moderate temperatures. Reaction Chemistry and Engineering, 2021, 6, 2400-2410.	1.9	4
12	Understanding the CO2 chemical reaction path on Li6ZnO4, a new possible high temperature CO2 captor. Chemical Engineering Journal, 2021, 417, 129205.	6.6	14
13	Mixed ionic-electronic conducting composite-based ceramic-carbonate dense membranes for CO2/O2 counter-permeation and CO oxidation. Chemical Engineering Science, 2021, 246, 117000.	1.9	1
14	CO2â€“CO capture and kinetic analyses of sodium cobaltate under various partial pressures. Adsorption, 2020, 26, 781-792.	1.4	2
15	High and efficient carbon dioxide chemisorption on a new high lithium-content ceramic; hexalithium cobaltate (Li6CoO4). Chemical Engineering Journal, 2020, 384, 123291.	6.6	19
16	First insights for hydrogen production using an alkaline ceramic through the water-gas shift reaction. Chemical Engineering Journal, 2020, 392, 123740.	6.6	8
17	The role of nickel addition on the CO2 chemisorption enhancement in Ni-containing Li2CuO2: Analysis of the cyclability and different CO2 partial pressure performance. Fuel, 2020, 277, 118185.	3.4	12
18	First discernments for NO storage and reduction (NSR) on lithium cuprate (Li2CuO2) at moderate temperatures (100â€¯â‰¤â€¯T â‰¤ 400â€¯Â°C). Applied Catalysis B: Environmental, 2020, 275, 119119.	10.8	6

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19	Developing new alkaline ceramics as possible CO2 chemisorbents at high temperatures: The lithium and sodium yttriates (LiYO2 and NaYO2) cases. Chemical Engineering Journal, 2020, 396, 125277.	6.6	8
20	New Catalytic and Sorption Bifunctional Li₆CoO₄ Material for Carbon Monoxide Oxidation and Subsequent Chemisorption. Industrial & Engineering Chemistry Research, 2020, 59, 10823-10831.	1.8	6
21	Development of novel nano-hydroxyapatite doped with silver as effective catalysts for carbon monoxide oxidation. Chemical Engineering Journal, 2020, 401, 125992.	6.6	18
22	Evaluation of Me-Li₂CuO₂ Solid Solutions (Where Me = Ni, Fe, and Mn) during CO₂ and CO Chemisorption. Journal of Physical Chemistry C, 2020, 124, 16019-16031.	1.5	11
23	Unraveling the effects on lithium-ion cathode performance by cation doping Mâ€“Li₂CuO₂ solid solution samples (M = Mn, Fe and Ni). Dalton Transactions, 2020, 49, 4549-4558.	1.6	13
24	Enhancing CO2 chemisorption on lithium cuprate (Li2CuO2) at moderate temperatures and different pressures by alkaline nitrate addition. Physical Chemistry Chemical Physics, 2020, 22, 2803-2813.	1.3	10
25	Two-dimensional MnFeCo layered double oxide as catalyst for enhanced selective catalytic reduction of NOx with NH3 at low temperature (25â€“150 Â°C). Applied Catalysis A: General, 2020, 592, 117432.	2.2	25
26	Enhanced selective catalytic reduction of NO with CO over Cu/C nanoparticles synthetized from a Cu-benzene-1,3,5-tricarboxylate metal organic framework by a continuous spray drying process. Chemical Engineering Journal, 2020, 388, 124270.	6.6	25
27	Co3O4 nanostructures and Co3O4 supported on halloysite nanotubes: New highly active and thermally stable feasible catalysts for CO oxidation. Applied Clay Science, 2020, 190, 105590.	2.6	19
28	New evidences in CO oxidation and selective chemisorption of carbon oxides on different alkaline ferrite crystal phases (NaFeO2 and LiFeO2). Fuel Processing Technology, 2020, 204, 106404.	3.7	17
29	CO₂â€”H₂O Capture and Cyclability on Sodium Cobaltate at Low Temperatures (30â€“80ÂÂ°C): Experimental and Theoretical Analysis. Energy Technology, 2019, 7, 1800527.	1.8	4
30	Evaluation of Fe-containing Li2CuO2 on CO2 capture performed at different physicochemical conditions. Environmental Science and Pollution Research, 2019, 26, 29532-29543.	2.7	4
31	COx-free hydrogen production from ammonia on novel cobalt catalysts supported on 1D titanate nanotubes. International Journal of Hydrogen Energy, 2019, 44, 30062-30074.	3.8	38
32	Thermokinetic evaluation of iron addition on lithium metazirconate (Fe-Li2ZrO3) for enhancing carbon dioxide capture at high temperatures. Thermochimica Acta, 2019, 673, 129-137.	1.2	12
33	Development of New Bifunctional Dense Ceramic-Carbonate Membrane Reactors for Gas Mixtures Separation, through CO Oxidation and Subsequent CO2 Permeation. ACS Applied Energy Materials, 2019, 2, 1380-1387.	2.5	9
34	Synthesis of Li_{4+x}Si_{1â”x}Fe_xO₄ solid solution by dry ball milling and its highly efficient CO₂ chemisorption in a wide temperature range and low CO₂ concentrations. Journal of Materials Chemistry A, 2019, 7, 4153-4164.	5.2	26
35	Pentalithium Ferrite (Li5FeO4) as Highly Active Material for Hydrogen Production in the Chemical Looping Partial Oxidation of Methane. Topics in Catalysis, 2019, 62, 884-893.	1.3	7
36	High and Efficient CO₂ Capture in Molten Nitrate-Modified Mgâ€“Alâ€“Palmitate Layered Double Oxides at High Pressures and Elucidation of Carbonation Mechanisms by in Situ DRIFT Spectroscopy Analysis. Industrial & Engineering Chemistry Research, 2019, 58, 5501-5509.	1.8	21

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37	Recent advances in lithium containing ceramic based sorbents for high-temperature CO₂ capture. Journal of Materials Chemistry A, 2019, 7, 7962-8005.	5.2	106
38	Nanosized Lithium Aluminate (Î³-LiAlO2) Synthesized by EDTA-citrate Complexing Method, Using Different Thermal Conditions. Journal of the Mexican Chemical Society, 2019, 63, .	0.2	5
39	Structural evolution and reaction mechanism of lithium nickelate (LiNiO2) during the carbonation reaction. Journal of Materiomics, 2018, 4, 56-61.	2.8	5
40	Thermocatalytic analysis of CO 2 -CO selective chemisorption mechanism on lithium cuprate (Li 2 CuO) Tj ETQq0 0 0 rgBT /Overlock 10	1.2	23
41	Enhanced CO 2 capture capacity on open-cell Mg foams via humid impregnation with lithium at low temperatures. Thermochimica Acta, 2018, 664, 73-80.	1.2	3
42	Ce0.85Sm0.15O2-Sm0.6Sr0.4Al0.3Fe0.7O3 composite for the preparation of dense ceramic-carbonate membranes for CO2 separation. Journal of Membrane Science, 2018, 547, 11-18.	4.1	34
43	Nickel-doped sodium zirconate catalysts for carbon dioxide storage and hydrogen production through dry methane reforming process. Applied Catalysis B: Environmental, 2018, 224, 80-87.	10.8	29
44	CO2 chemisorption enhancement produced by K2CO3- and Na2CO3-addition on Li2CuO2. Journal of CO2 Utilization, 2018, 23, 143-151.	3.3	25
45	Synthesis of gamma radiation-induced PEGylated cisplatin for cancer treatment. RSC Advances, 2018, 8, 34718-34725.	1.7	6
46	CO₂ Separation Improvement Produced on a Ceramicâ€“Carbonate Dense Membrane Superficially Modified with Auâ€“Pd. Industrial & Engineering Chemistry Research, 2018, 57, 9261-9268.	1.8	17
47	Alkaline zirconates as effective materials for hydrogen production through consecutive carbon dioxide capture and conversion in methane dry reforming. Applied Catalysis B: Environmental, 2018, 238, 576-585.	10.8	26
48	Effect of Chemical Composition and Crystal Phase of (Li,Na)FeO₂ Ferrites on CO₂ Capture Properties at High Temperatures. Journal of Physical Chemistry C, 2018, 122, 21162-21171.	1.5	17
49	Enhanced CO2 chemisorption at high temperatures via oxygen addition using (Fe, Cu or Ni)-containing sodium cobaltates as solid sorbents. Journal of CO2 Utilization, 2018, 25, 147-157.	3.3	14
50	Analysis of the CO₂Chemisorption in Li₅FeO₄, a New High Temperature CO₂Captor Material. Effect of the CO₂and O₂Partial Pressures. Journal of Physical Chemistry C, 2017, 121, 3455-3462.	1.5	46
51	Ce_{0.8}Sm_{0.15}Sr_{0.05}O₂ as Possible Oxidation Catalyst and Assessment of the CaO Addition in the Coupled CO Oxidationâ€“CO₂ Capture Process. Industrial & Engineering Chemistry Research, 2017, 56, 6124-6130.	1.8	6
52	Thermokinetic and conductivity analyzes of the high CO2 chemisorption on Li5AlO4 and alkaline carbonate impregnated Li5AlO4 samples: Effects produced by the use of CO2 partial pressures and oxygen addition. Journal of Energy Chemistry, 2017, 26, 919-926.	7.1	18
53	Synthesis and evaluation as CO2 chemisorbent of the Li5(Al1â^'Fe)O4 solid solution materials: Effect of oxygen addition. Journal of Energy Chemistry, 2017, 26, 948-955.	7.1	13
54	Bifunctional application of lithium ferrites (Li 5 FeO 4 and LiFeO 2) during carbon monoxide (CO) oxidation and chemisorption processes. A catalytic, thermogravimetric and theoretical analysis. Chemical Engineering Journal, 2017, 327, 783-791.	6.6	33

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55	NiO CaO materials as promising catalysts for hydrogen production through carbon dioxide capture and subsequent dry methane reforming. Journal of Energy Chemistry, 2017, 26, 942-947.	7.1	35
56	High and efficient Li2CuO2-CO2 chemisorption using different partial pressures and enhancement produced by the oxygen addition. Chemical Engineering Journal, 2017, 313, 1288-1294.	6.6	34
57	Thermogravimetric study of sequential carbonation and decarbonation processes over Na₂ZrO₃ at low temperatures (30â€“80 Â°C): relative humidity effect. RSC Advances, 2016, 6, 66579-66588.	1.7	15
58	CO2 adsorption at high pressures in MCM-41 and derived alkali-containing samples: the role of the textural properties and chemical affinity. Journal of Porous Materials, 2016, 23, 1155-1162.	1.3	4
59	CO Oxidation and Subsequent CO₂ Chemisorption on Alkaline Zirconates: Li₂ZrO₃ and Na₂ZrO₃. Industrial & Engineering Chemistry Research, 2016, 55, 9880-9886.	1.8	40
60	Structural and CO₂capture analyses of the Li_{1+x}FeO₂(0 â‰¤ x â‰¤ 0.3) system: effect of different physicochemical conditions. RSC Advances, 2016, 6, 112040-112049.	1.7	26
61	Methane Reforming Process by means of a Carbonated Na₂ZrO₃ Catalyst. Chemistry Letters, 2016, 45, 685-687.	0.7	12
62	CO₂ capture enhancement in InOF-1 via the bottleneck effect of confined ethanol. Chemical Communications, 2016, 52, 10273-10276.	2.2	48
63	Structural and microstructural analysis of different CaOâ€“NiO composites and their application as CO2 or COâ€“O2 captors. Reaction Kinetics, Mechanisms and Catalysis, 2016, 119, 445-455.	0.8	8
64	First assessment of Li 2 Oâ€“Bi 2 O 3 ceramic oxides for high temperature carbon dioxide capture. Journal of Energy Chemistry, 2016, 25, 754-760.	7.1	10
65	CO₂ chemisorption in Li₂CuO₂ microstructurally modified by ball milling: study performed with different physicochemical CO₂ capture conditions. RSC Advances, 2016, 6, 57880-57888.	1.7	26
66	CO Chemical Capture on Lithium Cuprate, Through a Consecutive CO Oxidation and Chemisorption Bifunctional Process. Journal of Physical Chemistry C, 2016, 120, 3798-3806.	1.5	29
67	Biodiesel production from soybean and Jatropha oils using cesium impregnated sodium zirconate as a heterogeneous base catalyst. Renewable Energy, 2016, 93, 323-331.	4.3	74
68	Bifunctional application of sodium cobaltate as a catalyst and captor through CO oxidation and subsequent CO₂ chemisorption processes. RSC Advances, 2016, 6, 2162-2170.	1.7	27
69	Li2SiO3 fast microwave-assisted hydrothermal synthesis and evaluation of its water vapor and CO2 absorption properties. Particuology, 2016, 24, 129-137.	2.0	16
70	CO2 Chemisorption on Li5AlO4: Effects of Sodium and Potassium Carbonate Addition. Materials Research Society Symposia Proceedings, 2015, 1765, 109-114.	0.1	0
71	Development of pure Mg open-cell foams as structured CO2 captor. Thermochimica Acta, 2015, 621, 74-80.	1.2	5
72	Evidence of CO Oxidationâ€“Chemisorption Process on Sodium Zirconate (Na2ZrO3). Chemistry Letters, 2015, 44, 480-482.	0.7	14

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73	CO₂ chemisorption and cyclability analyses in Î±â^'Li₅AlO₄: effects of Na₂CO₃ and K₂CO₃ addition. , 2015, 5, 802-811.		15
74	Water steam effect during high CO₂ chemisorption in lithium cuprate (Li₂CuO₂) at moderate temperatures: experimental and theoretical evidence. RSC Advances, 2015, 5, 34157-34165.	1.7	29
75	Separation of CO₂from CH₄and CO₂capture in the presence of water vapour in NOTT-400. New Journal of Chemistry, 2015, 39, 2400-2403.	1.4	38
76	Synthesis and characterisation of K₂[LnTa₃O₁₀]Â·nH₂O (Ln = La, Pr, Nd): cation-deficient layered perovskite tantalates for water photolysis. Canadian Journal of Chemistry, 2015, 93, 550-557.	0.6	3
77	Analysis of the CO₂â€“H₂O Chemisorption in Lithium Silicates at Low Temperatures (30â€“80 Â°C). Industrial & Engineering Chemistry Research, 2015, 54, 6884-6892.	1.8	15
78	CO2 chemisorption and evidence of the CO oxidationâ€“chemisorption mechanisms on sodium cobaltate. Chemical Engineering Journal, 2015, 271, 106-113.	6.6	22
79	Electronic Structure, Phonon Dynamical Properties, andCO2Capture Capability ofNa2â^'xMxZrO3(M=Li,K): Density-Functional Calculations and Experimental Validations. Physical Review Applied, 2015, 3, .	1.5	20
80	Changes in the characteristics of acid-treated clay after the inclusion of proteins. Surface and Interface Analysis, 2015, 47, 135-141.	0.8	7
81	Potassium-based sorbents using mesostructured Î³-alumina supports for low temperature CO2 capture. Ceramics International, 2015, 41, 3036-3044.	2.3	15
82	The effects of high-pressure on the chemisorption process of CO2 on lithium oxosilicate (Li8SiO6). Chemical Engineering Journal, 2015, 264, 10-15.	6.6	25
83	Nanoporous composites prepared by a combination of SBA-15 with Mgâ€“Al mixed oxides. Water vapor sorption properties. Beilstein Journal of Nanotechnology, 2014, 5, 1226-1234.	1.5	16
84	Hierarchical Na-doped cubic ZrO2 synthesis by a simple hydrothermal route and its application in biodiesel production. Journal of Solid State Chemistry, 2014, 218, 213-220.	1.4	19
85	Influence of the Kâ€¢Naâ€•and Kâ€•Naâ€•carbonate additions during the CO₂ chemisorption on lithium oxosilicate (Li₈SiO₆). , 2014, 4, 145-154.		20
86	Thermoanalytical study of acid-treated clay containing amino acid immobilized on its surface. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1359-1369.	2.0	6
87	Sodium zirconate (Na2ZrO3) as a catalyst in a soybean oil transesterification reaction for biodiesel production. Fuel Processing Technology, 2014, 120, 34-39.	3.7	64
88	Structural and Ionic Conduction Analyses of the Na₂(Zr_{1â€“x}Al_x)O_{3â€“x/2} Solid Solution, During the CO₂ Chemisorption Process. Journal of Physical Chemistry C, 2014, 118, 26212-26218.	1.5	6
89	Thermodynamic and Kinetic Analyses of the CO₂ Chemisorption Mechanism on Na₂TiO₃: Experimental and Theoretical Evidences. Journal of Physical Chemistry C, 2014, 118, 19822-19832.	1.5	37
90	CO2 Adsorption at Elevated Pressure and Temperature on Mgâ€“Al Layered Double Hydroxide. Industrial & Engineering Chemistry Research, 2014, 53, 8087-8094.	1.8	27

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91	Some consequences of the fluorination of brucite-like layers in layered double hydroxides: Adsorption. Applied Clay Science, 2014, 88-89, 26-32.	2.6	14
92	CO2 capture properties of lithium silicates with different ratios of Li2O/SiO2: an ab initio thermodynamic and experimental approach. Physical Chemistry Chemical Physics, 2013, 15, 13538.	1.3	100
93	Thermogravimetric analysis of the water vapor addition during the CaO carbonation process at moderate temperatures (40â€“70ÂºC). Journal of Thermal Analysis and Calorimetry, 2013, 111, 1385-1390.	2.0	3
94	Cyclic CO2 chemisorptionâ€“desorption behavior of Na2ZrO3: Structural, microstructural and kinetic variations produced as a function of temperature. Journal of Solid State Chemistry, 2013, 204, 298-304.	1.4	32
95	Microstructural and CO2 chemisorption analyses of Li4SiO4: Effect of surface modification by the ball milling process. Thermochimica Acta, 2013, 567, 118-124.	1.2	93
96	Dynamic water vapor sorption on Mg(Ga3+)O mixed oxides: Analysis of the LDH thermal regeneration process. Thermochimica Acta, 2013, 553, 49-53.	1.2	4
97	High CO₂ Capture in Sodium Metasilicate (Na₂SiO₃) at Low Temperatures (30â€“60 ÂºC) through the CO₂â€“H₂O Chemisorption Process. Journal of Physical Chemistry C, 2013, 117, 13452-13461.	1.5	38
98	Analysis of the CO2 chemisorption reaction mechanism in lithium oxosilicate (Li8SiO6): a new option for high-temperature CO2 capture. Journal of Materials Chemistry A, 2013, 1, 3919.	5.2	69
99	Thermokinetic and microstructural analyses of the CO2 chemisorption on K2CO3â€“Na2ZrO3. Journal of CO2 Utilization, 2013, 3-4, 14-20.	3.3	17
100	Structural and CO₂ Chemisorption Analyses on Na₂(Zr_{1â€“x}Al_x)O₃ Solid Solutions. Journal of Physical Chemistry C, 2013, 117, 16483-16491.	1.5	27
101	Li_{4+x}(Si_{1â€“x}Al_x)O₄ Solid Solution Mechanosynthesis and Kinetic Analysis of the CO₂ Chemisorption Process. Journal of Physical Chemistry C, 2013, 117, 6303-6311.	1.5	52
102	Inactivation of Ascaris eggs in water using hydrogen peroxide and a Fenton type nanocatalyst (FeOx/C) synthesized by a novel hybrid production process. Journal of Water and Health, 2013, 11, 419-429.	1.1	7
103	Î±Ââ†'ÂÎ³ Lithium borate phase transition produced during the CO2 chemisorption process. Journal of Thermal Analysis and Calorimetry, 2012, 110, 807-811.	2.0	15
104	Synthesis of advanced ceramics by hydrothermal crystallization and modified related methods. Journal of Advanced Ceramics, 2012, 1, 204-220.	8.9	55
105	CO₂ Chemisorption and Cyclability Analyses of Lithium Aluminate Polymorphs (Î±- and) Tj ETQq1 1 0.784314 rgBT /Over	1.8	60
106	Structural and Thermochemical Chemisorption of CO₂ on Li_{4+x}(Si_{1â€“x}Al_x)O₄ and Li_{4â€“x}(Si_{1â€“x}V_x)O₄ Solid Solutions. Journal of Physical Chemistry A, 2012, 116, 3163-3171.	1.1	67
107	High CO₂ Chemisorption in Î±-Li₅AlO₄ at Low Temperatures (30â€“80) Tj ETQq1 1 0.784314	2.5	33
108	Microstructural Thermal Evolution of the Na₂CO₃ Phase Produced during a Na₂ZrO₃â€“CO₂ Chemisorption Process. Journal of Physical Chemistry C, 2012, 116, 9675-9680.	1.5	62

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109	Synthesis of aluminosilicates under high pressure and using sulfur as directing agent. Open Chemistry, 2012, 10, 105-112.	1.0	6
110	Analysis and perspectives concerning CO2 chemisorption on lithium ceramics using thermal analysis. Journal of Thermal Analysis and Calorimetry, 2012, 108, 647-655.	2.0	77
111	Electrochemical Behavior of (Zn, Mn)-Al Nitrated Hydrotalcites. Journal of New Materials for Electrochemical Systems, 2012, 15, 301-306.	0.3	2
112	CO₂ Capture at Low Temperatures (30â€“80 Â°C) and in the Presence of Water Vapor over a Thermally Activated Mgâ€“Al Layered Double Hydroxide. Journal of Physical Chemistry A, 2011, 115, 12243-12250.	1.1	25
113	Analysis of the CO2 capture in sodium zirconate (Na2ZrO3). Effect of the water vapor addition. International Journal of Greenhouse Gas Control, 2011, 5, 1624-1629.	2.3	47
114	Evidence of CO2 Chemisorption at High Temperature in Lithium Gallate (Li5GaO4). Chemistry Letters, 2011, 40, 504-505.	0.7	7
115	Structure, thermal stability, and catalytic performance of MgO-ZrO2 composites. Journal of Structural Chemistry, 2011, 52, 340-349.	0.3	3
116	Thermal analysis of the Mg(OH)2 dehydroxylation process at high pressures. Thermochimica Acta, 2011, 525, 180-182.	1.2	10
117	Cyanoethylation of alcohols by activated Mgâ€“Al layered double hydroxides: Influence of rehydration conditions and Mg/Al molar ratio on BrÃ¶nsted basicity. Journal of Catalysis, 2011, 279, 196-204.	3.1	73
118	Thermokinetic analysis of the MgO surface carbonation process in the presence of water vapor. Thermochimica Acta, 2011, 516, 74-78.	1.2	19
119	Surfactant-assisted hydrothermal crystallization of nanostructured lithium metasilicate (Li2SiO3) hollow spheres: (I) Synthesis, structural and microstructural characterization. Journal of Solid State Chemistry, 2011, 184, 1304-1311.	1.4	22
120	Surfactant-assisted hydrothermal crystallization of nanostructured lithium metasilicate (Li2SiO3) hollow spheres: IIâ€”Textural analysis and CO2â€“H2O sorption evaluation. Journal of Solid State Chemistry, 2011, 184, 2257-2262.	1.4	35
121	Towards understanding the thermoanalysis of water sorption on lithium orthosilicate (Li4SiO4). Thermochimica Acta, 2011, 515, 73-78.	1.2	48
122	Thermochemical and Cyclability Analyses of the CO2 Absorption Process on a Ca/Al Layered Double Hydroxide. Journal of Environmental Engineering, ASCE, 2011, 137, 1058-1065.	0.7	15
123	Advances on Alkaline Ceramics as Possible CO₂Captors. ACS Symposium Series, 2010, , 233-253.	0.5	12
124	Oxygen Absorption in Free-Standing Porous Silicon: A Structural, Optical and Kinetic Analysis. Nanoscale Research Letters, 2010, 5, 686-691.	3.1	32
125	Toward Understanding the Effect of Water Sorption on Lithium Zirconate (Li₂ZrO₃) during Its Carbonation Process at Low Temperatures. Journal of Physical Chemistry C, 2010, 114, 9453-9458.	1.5	32
126	Effect of Oxygen Addition on the Thermokinetic Properties of CO₂ Chemisorption on Li₂ZrO₃. Industrial & Engineering Chemistry Research, 2010, 49, 9038-9042.	1.8	36

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127	Influence of Mg/Al Ratio on the Thermokinetic Rehydration of Calcined Mgâ^'Al Layered Double Hydroxides. Journal of Physical Chemistry C, 2010, 114, 8485-8492.	1.5	22
128	Thermokinetic Analysis of the CO₂ Chemisorption on Li₄SiO₄ by Using Different Gas Flow Rates and Particle Sizes. Journal of Physical Chemistry A, 2010, 114, 4535-4541.	1.1	135
129	Thermokinetic Study of the Rehydration Process of a Calcined MgAl-Layered Double Hydroxide. Langmuir, 2010, 26, 4074-4079.	1.6	38
130	Influence of copper on the microstructure of solâ€"gel titanium oxide nanotubes array. Journal of Materials Science, 2009, 44, 4162-4168.	1.7	10
131	Synthesis of macroporous ZrO2â€"Al2O3 mixed oxides with mesoporous walls, using polystyrene spheres as template. Journal of Porous Materials, 2009, 16, 473-479.	1.3	22
132	Structural Analysis and CO₂ Chemisorption Study on Nonstoichiometric Lithium Cuprates (Li_{2+x}CuO_{2+x/2}). Journal of Physical Chemistry A, 2009, 113, 193-198.	1.1	40
133	Thermochemical Capture of Carbon Dioxide on Lithium Aluminates (LiAlO₂ and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Physical Chemistry A, 2009, 113, 6919-6923.	1.1	120
134	Iba of Zeolites Exchanged with Lithium for Co[sub 2] Retention. , 2009, , .		0
135	Fe-ZSM-5 Catalysts: Preparation in Organic Media, Fe-particle Morphology and NO x Reduction Activity. Catalysis Letters, 2008, 120, 244-251.	1.4	20
136	Sodium metasilicate (Na2SiO3): A thermo-kinetic analysis of its CO2 chemical sorption. Thermochimica Acta, 2008, 473, 92-95.	1.2	51
137	Textural, Structural, and CO₂ Chemisorption Effects Produced on the Lithium Orthosilicate by Its Doping with Sodium (Li_{4â^'x}Na_xSiO₄). Chemistry of Materials, 2008, 20, 7171-7176.	3.2	132
138	CO₂ Absorption on Na₂ZrO₃:â€‰ A Kinetic Analysis of the Chemisorption and Diffusion Processes. Journal of Physical Chemistry C, 2008, 112, 6520-6525.	1.5	102
139	Low Temperature Synthesis of Li2SiO3: Effect on Its Morphological and Textural Properties. Research Letters in Materials Science, 2008, 2008, 1-4.	0.2	12
140	Lithium Cuprate (Li2CuO2): A New Possible Ceramic Material for CO2 Chemisorption. Chemistry Letters, 2008, 37, 862-863.	0.7	66
141	Kinetic and Reaction Mechanism of CO2Sorption on Li4SiO4:Â Study of the Particle Size Effect. Industrial & Engineering Chemistry Research, 2007, 46, 2407-2412.	1.8	207
142	Thermal Behavior and CO2Absorption of Li2-xNaxZrO3Solid Solutions. Chemistry of Materials, 2007, 19, 922-926.	3.2	86
143	Synthesis and CO2 capture evaluation of Li2â^'xKxZrO3 solid solutions and crystal structure of a new lithiumâ€"potassium zirconate phase. Journal of Solid State Chemistry, 2007, 180, 2485-2492.	1.4	56
144	Microstructural Development of ZnO Pellets Doped with Different Vanadium Oxides (V₂O₅ and V₂O₃). International Journal of Applied Ceramic Technology, 2007, 4, 564-570.	1.1	4

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