

Renaud Denoyel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2880507/publications.pdf>

Version: 2024-02-01

89
papers

4,544
citations

126708

33
h-index

102304

66
g-index

91
all docs

91
docs citations

91
times ranked

6506
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of surface diffusion on transport through porous materials. <i>Journal of Chromatography A</i> , 2022, 1665, 462823.	1.8	9
2	Effect of the polydispersity on the dispersion of polymers through silicas having different morphologies (fully porous and core-shell particles and monoliths). <i>Journal of Chromatography A</i> , 2021, 1641, 461985.	1.8	0
3	Effect of tortuosity on diffusion of polystyrenes through chromatographic columns filled with fully porous and porous "shell particles and monoliths. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109776.	2.2	11
4	Influence of texture and microstructure on the reactivity of aluminum powders. <i>Materialia</i> , 2020, 14, 100880.	1.3	2
5	Porous silica beads produced by nanofluid emulsion freezing. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110362.	2.2	4
6	Cancrinite synthesis from natural kaolinite by high pressure hydrothermal method: Application to the removal of Cd ²⁺ and Pb ²⁺ from water. <i>Microporous and Mesoporous Materials</i> , 2020, 301, 110209.	2.2	11
7	Synthesis of binderless FAU-X (13X) monoliths with hierarchical porosity. <i>Microporous and Mesoporous Materials</i> , 2019, 281, 57-65.	2.2	13
8	Thermodynamic properties of C-S-H, C-A-S-H and M-S-H phases: Results from direct measurements and predictive modelling. <i>Applied Geochemistry</i> , 2018, 92, 140-156.	1.4	72
9	Direct electron transfer of bilirubin oxidase at a carbon flow-through electrode. <i>Electrochimica Acta</i> , 2018, 283, 88-96.	2.6	13
10	Microstructure Formation in Freezing Nanosuspension Droplets. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2714-2719.	2.1	2
11	Methodology for determining the thermodynamic properties of smectite hydration. <i>Applied Geochemistry</i> , 2017, 82, 146-163.	1.4	18
12	Effect of porogen solvent on the properties of nickel ion imprinted polymer materials prepared by inverse suspension polymerization. <i>European Polymer Journal</i> , 2017, 87, 124-135.	2.6	30
13	Spontaneous Microstructure Formation at Water/Paraffin Oil Interfaces. <i>Langmuir</i> , 2017, 33, 14011-14019.	1.6	16
14	The Use of Nanoporous Materials for Mechanical Energy Dissipation. , 2017, , .		1
15	Microcalorimetry Study of the Adsorption of Asphaltenes and Asphaltene Model Compounds at the Liquid-Solid Surface. <i>Langmuir</i> , 2016, 32, 7294-7305.	1.6	33
16	Surface excess amounts in high-pressure gas adsorption: Issues and benefits. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 496, 3-12.	2.3	9
17	Noninvasive Experimental Evidence of the Linear Pore Size Dependence of Water Diffusion in Nanoconfinement. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 393-398.	2.1	18
18	Adsorption of styrene sulfonate from aqueous solutions onto carbon fibers and mesoporous carbon. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 247-255.	2.2	5

#	ARTICLE	IF	CITATIONS
19	Simulation of liquid-liquid interfaces in porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 496, 28-38.	2.3	6
20	The Direct Heat Measurement of Mechanical Energy Storage Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4626-4630.	7.2	47
21	Optimization of Block Copolymer Electrolytes for Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2015, 27, 4682-4692.	3.2	125
22	Oxidation Mechanism of Aluminum Nanopowders. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25063-25070.	1.5	48
23	Influence of humidity, temperature, and the addition of activated carbon on the preparation of cellulose acetate membranes and their ability to remove arsenic from water. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	20
24	Impact of the solute exclusion on the bed longitudinal diffusion coefficient and particle intra-tortuosity determined by ISEC. <i>Journal of Chromatography A</i> , 2014, 1325, 179-185.	1.8	11
25	Contact Interaction of Double-Chained Surfactant Layers on Silica: Bilayer Rupture and Capillary Bridge Formation. <i>Langmuir</i> , 2013, 29, 14473-14481.	1.6	0
26	Impact of wettability on moisture transport at mesoscale in porous materials. <i>Microporous and Mesoporous Materials</i> , 2013, 178, 104-107.	2.2	4
27	Adsorption of 2,3-DCDD on FAU and EMT-type zeolites: Influence of the nature and the content of charge compensating cations. <i>Microporous and Mesoporous Materials</i> , 2013, 177, 25-31.	2.2	12
28	Single-ion BAB triblock copolymers as highly efficient electrolytes for lithium-metal batteries. <i>Nature Materials</i> , 2013, 12, 452-457.	13.3	1,194
29	Characterisation of MOF Materials by Thermomechanical Methods. , 2013, , .		0
30	Morphology and reactivity of aluminium nanocrystalline powders. <i>International Journal of Nanotechnology</i> , 2012, 9, 618.	0.1	3
31	Inverse Suspension Polymerization as a New Tool for the Synthesis of Ion-Imprinted Polymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 928-932.	2.0	32
32	Catechol immobilized on crosslinked polystyrene resins by grafting or copolymerization: Incidence on metal ions adsorption. <i>Reactive and Functional Polymers</i> , 2012, 72, 98-106.	2.0	20
33	The characterization of macroporous solids: An overview of the methodology. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 2-6.	2.2	76
34	Enthalpic effects in the adsorption of alkylaromatics on the metal-organic frameworks MIL-47 and MIL-53. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 82-88.	2.2	33
35	An efficient and recyclable hybrid nanocatalyst to promote enantioselective radical cascade rearrangements of enediyne. <i>Chemical Communications</i> , 2011, 47, 5286.	2.2	25
36	Structural Transitions in MIL-53 (Cr): View from Outside and Inside. <i>Langmuir</i> , 2011, 27, 4734-4741.	1.6	143

#	ARTICLE	IF	CITATIONS
37	<i>p</i> -Xylene-Selective Metal-Organic Frameworks: A Case of Topology-Directed Selectivity. <i>Journal of the American Chemical Society</i> , 2011, 133, 18526-18529.	6.6	159
38	Selective Removal of N-Heterocyclic Aromatic Contaminants from Fuels by Lewis Acidic Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4210-4214.	7.2	159
39	Thermodynamical and structural insights of orange II adsorption by Mg- Al-NO_3 layered double hydroxides. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1016-1024.	1.4	49
40	Influence of the structure of mesoporous adsorbents on transport properties. <i>Microporous and Mesoporous Materials</i> , 2011, 140, 97-102.	2.2	4
41	Functionalized ordered nanoporous polymeric materials: From the synthesis of diblock copolymers to their nanostructure and their selective degradation. <i>Microporous and Mesoporous Materials</i> , 2011, 140, 34-39.	2.2	32
42	Liquid intrusion and alternative methods for the characterization of macroporous materials (IUPAC) <i>Trends in Analytical Chemistry</i> , 2010, 10, 163-168.	0.9	163
43	Using Pressure to Provoke the Structural Transition of Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2010, 122, 7688-7691.	1.6	34
44	Using Pressure to Provoke the Structural Transition of Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7526-7529.	7.2	200
45	Synthesis of a poly(vinylcatechol-co-divinylbenzene) resin and accessibility to catechol units. <i>Polymer</i> , 2010, 51, 2472-2478.	1.8	25
46	The extraction of creatinine from a physiological medium by a microporous solid and its quantification by diffuse reflectance UV spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2010, 129, 144-148.	2.2	13
47	Adsorption of paracresol in silicalite-1 and pure silica faujasite. A comparison study using molecular simulation. <i>Applied Surface Science</i> , 2010, 256, 5470-5474.	3.1	5
48	Epoxy-functionalized large-pore SBA-15 and KIT-6 as affinity chromatography supports. <i>Comptes Rendus Chimie</i> , 2010, 13, 199-206.	0.2	34
49	Influence of Molecule Size on Its Transport Properties through a Porous Medium. <i>Analytical Chemistry</i> , 2010, 82, 2668-2679.	3.2	47
50	Novel Routes to Functional (Meso)Porous Cross-Linked Polymers Using (Semi)Interpenetrating Polymer Networks as Nanostructured Precursors. <i>Macromolecular Symposia</i> , 2010, 291-292, 168-176.	0.4	5
51	Mechanism of Metal Oxide Nanoparticle Loading in SBA-15 by the Double Solvent Technique. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3507-3515.	1.5	82
52	Explanation of the Adsorption of Polar Vapors in the Highly Flexible Metal Organic Framework MIL-53(Cr). <i>Journal of the American Chemical Society</i> , 2010, 132, 9488-9498.	6.6	185
53	Contact Angle Assessment of Hydrophobic Silica Nanoparticles Related to the Mechanisms of Dry Water Formation. <i>Langmuir</i> , 2010, 26, 2333-2338.	1.6	45
54	Novel Functional Mesoporous Materials Obtained from Nanostructured Diblock Copolymers. <i>Macromolecular Symposia</i> , 2010, 287, 127-134.	0.4	19

#	ARTICLE	IF	CITATIONS
55	Adsorption into the MFI zeolite of aromatic molecule of biological relevance. Investigations by Monte Carlo simulations. Journal of Molecular Modeling, 2009, 15, 573-579.	0.8	7
56	Mechanism of creatinine adsorption from physiological solutions onto mordenite. Microporous and Mesoporous Materials, 2009, 119, 186-192.	2.2	30
57	Hydration sequence of swelling clays: Evolutions of specific surface area and hydration energy. Journal of Colloid and Interface Science, 2009, 333, 510-522.	5.0	95
58	Characterization of pore structure of a strong anion-exchange membrane adsorbent under different buffer and salt concentration conditions. Journal of Chromatography A, 2009, 1216, 941-947.	1.8	40
59	Molecular Simulations of Water and Paracresol in MFI Zeolite - A Monte Carlo Study. Langmuir, 2009, 25, 11598-11607.	1.6	12
60	Single Crystal X-ray Diffraction Studies of Carbon Dioxide and Fuel-Related Gases Adsorbed on the Small Pore Scandium Terephthalate Metal Organic Framework, $\text{Sc}_2(\text{O}_2)_2\text{CC}_6\text{H}_4\text{CO}_2$. Langmuir, 2009, 25, 3618-3626.	1.6	91
61	Optimization of the Properties of Macroporous Chromatography Silica Supports through Surface Roughness Control. Chemistry of Materials, 2009, 21, 1884-1892.	3.2	18
62	Synthesis and characterization of a polystyrenic resin functionalized by catechol: Application to retention of metal ions. Reactive and Functional Polymers, 2008, 68, 1362-1370.	2.0	34
63	Composite Proton-Conducting Hybrid Polymers: Water Sorption Isotherms and Mechanical Properties of Blends of Sulfonated PEEK and Substituted PPSU. Chemistry of Materials, 2008, 20, 4327-4334.	3.2	72
64	Porous Texture and Surface Characterization from Liquid-Solid Interactions. , 2008, , 273-300.		10
65	A calorimetric study of mesoscopic swelling and hydration sequence in solid Na-montmorillonite. Applied Clay Science, 2008, 39, 186-201.	2.6	66
66	Pore-Blocking-Controlled Freezing of Water in Cagelike Pores of KIT-5. Journal of Physical Chemistry C, 2007, 111, 9488-9495.	1.5	50
67	CEC separation of aromatic compounds and proteins on hexylamine- ϵ -functionalized γ -acryloxysuccinimide monoliths. Journal of Separation Science, 2007, 30, 3000-3010.	1.3	28
68	Characterization of mesoporous silica and its pseudomorphically transformed derivative by gas and liquid adsorption. Microporous and Mesoporous Materials, 2007, 102, 111-121.	2.2	35
69	Detailed in Situ XRD and Calorimetric Study of the Formation of Silicate/Mixed Surfactant Mesophases under Alkaline Conditions. Influence of Surfactant Chain Length and Synthesis Temperature. Journal of Physical Chemistry B, 2006, 110, 16254-16260.	1.2	20
70	Adsorption of the uremic toxin p-cresol onto hemodialysis membranes and microporous adsorbent zeolite silicalite. Journal of Biotechnology, 2006, 123, 164-173.	1.9	51
71	Calculation of immersion enthalpy data from adsorption isotherms. Journal of Colloid and Interface Science, 2005, 282, 327-334.	5.0	9
72	Do the Differential Enthalpies of Adsorption Vary Between 77 K and 302 K? An Experimental Case Study of Argon and Nitrogen on Two Faujasite Type Zeolites. Adsorption, 2005, 11, 73-78.	1.4	9

#	ARTICLE	IF	CITATIONS
73	Nitrogen Adsorption on Divalent Cation Substituted X-Faujasites: Microcalorimetry and Monte Carlo Simulation. <i>Adsorption</i> , 2005, 11, 343-347.	1.4	2
74	Calorimetry by immersion into liquid nitrogen and liquid argon: a better way to determine the internal surface area of micropores. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 383-386.	5.0	3
75	Comparing the Basic Phenomena Involved in Three Methods of Pore-size Characterization: Gas Adsorption, Liquid Intrusion and Thermoporometry. <i>Particle and Particle Systems Characterization</i> , 2004, 21, 128-137.	1.2	21
76	The use of microcalorimetry to assess the size exclusion properties of carbon molecular sieves. <i>Thermochimica Acta</i> , 2004, 420, 141-144.	1.2	13
77	Comparative adsorption of argon and nitrogen for the characterisation of hydrophobized surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 245, 93-98.	2.3	27
78	Cluster-Associated Filling of Water in Hydrophobic Carbon Micropores. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14043-14048.	1.2	78
79	Assessing microporosity by immersion microcalorimetry into liquid nitrogen or liquid argon. <i>Studies in Surface Science and Catalysis</i> , 2002, , 171-176.	1.5	9
80	In situ methods for studying adsorbed phases at the solid/liquid interface: microcalorimetry and ellipsometry. <i>Comptes Rendus - Geoscience</i> , 2002, 334, 689-702.	0.4	3
81	Adsorption of Barium and Calcium Chloride onto Negatively Charged γ -Fe ₂ O ₃ Particles. <i>Journal of Colloid and Interface Science</i> , 2002, 255, 27-35.	5.0	30
82	Grafting γ -aminopropyl triethoxysilane onto silica: consequence on polyacrylic acid adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 197, 213-223.	2.3	11
83	In situ surfactant removal from MCM-type mesostructures by ozone treatment. <i>Journal of Materials Chemistry</i> , 2001, 11, 589-593.	6.7	45
84	The influence of surface chemistry on activated carbon adsorption of 2-methylisoborneol from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 179, 271-280.	2.3	61
85	Calcination of the MCM-41 mesophase: mechanism of surfactant thermal degradation and evolution of the porosity. <i>Journal of Materials Chemistry</i> , 1999, 9, 2843-2849.	6.7	91
86	Formation of mesoporous, zirconium(IV) oxides of controlled surface areas. <i>Journal of Materials Chemistry</i> , 1998, 8, 2147-2152.	6.7	40
87	Ozone treatment for the removal of surfactant to form MCM-41 type materials. <i>Chemical Communications</i> , 1998, , 2203-2204.	2.2	82
88	Interactions of lysozyme with hydrophilic and hydrophobic polymethacrylate stationary phases in reversed phase chromatography (RPC). <i>Journal of Proteomics</i> , 1994, 29, 283-294.	2.4	15
89	The role of thermal analysis and calorimetry in the study of porous or divided materials. <i>Thermochimica Acta</i> , 1989, 148, 183-190.	1.2	5