

Jean Baptiste d'Espinose de Lacaillerie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3575157/publications.pdf>

Version: 2024-02-01

89
papers

4,623
citations

117625

34
h-index

102487

66
g-index

90
all docs

90
docs citations

90
times ranked

4900
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme Enhancement of Carbon Hydrogasification via Mechanochemistry. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
2	Extreme Enhancement of Carbon Hydrogasification via Mechanochemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5
3	Magnetic structure and internal field nuclear magnetic resonance of cobalt nanowires. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11898-11909.	2.8	4
4	Early reactivity of sodium silicate-activated slag pastes and its impact on rheological properties. <i>Cement and Concrete Research</i> , 2021, 140, 106302.	11.0	66
5	Evolution of the microstructure of unconsolidated geopolymers by thermoporometry. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1581-1591.	3.8	7
6	Superparamagnetic behaviour of metallic Co nanoparticles according to variable temperature magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2723-2730.	2.8	10
7	Effect of supplementary cementitious materials on carbonation of cement pastes. <i>Cement and Concrete Research</i> , 2021, 142, 106358.	11.0	86
8	Co/multi-walled carbon nanotubes/polyethylene composites for microwave absorption: Tuning the effectiveness of electromagnetic shielding by varying the components ratio. <i>Composites Science and Technology</i> , 2021, 207, 108731.	7.8	27
9	Model synthetic pastes for low pH cements. <i>Cement and Concrete Research</i> , 2020, 136, 106168.	11.0	6
10	Predicting the atmospheric carbonation of cementitious materials using fully coupled two-phase reactive transport modelling. <i>Cement and Concrete Research</i> , 2020, 130, 105966.	11.0	16
11	Competitive adsorption of PAM and HPAM on siliceous material. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 579, 123673.	4.7	22
12	Durability of cement pastes exposed to external sulfate attack and leaching: Physical and chemical aspects. <i>Cement and Concrete Research</i> , 2019, 116, 134-145.	11.0	136
13	Interplay between silicate and hydroxide ions during geopolymerization. <i>Cement and Concrete Research</i> , 2019, 115, 426-432.	11.0	37
14	Internal field ^{59}Co NMR study of cobalt-iron nanoparticles during the activation of CoFe_2/CaO catalyst for carbon nanotube synthesis. <i>Journal of Catalysis</i> , 2018, 358, 62-70.	6.2	31
15	Impact of polyacrylamide adsorption on flow through porous siliceous materials: State of the art, discussion and industrial concern. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 693-704.	9.4	24
16	Co metal nanoparticles deposition inside or outside multi-walled carbon nanotubes via facile support pretreatment. <i>Applied Surface Science</i> , 2018, 456, 657-665.	6.1	29
17	Hydrophobization of Silica Nanoparticles in Water: Nanostructure and Response to Drying Stress. <i>Langmuir</i> , 2017, 33, 4709-4719.	3.5	12
18	Magnetic and dielectric properties of carbon nanotubes with embedded cobalt nanoparticles. <i>Carbon</i> , 2017, 114, 39-49.	10.3	45

#	ARTICLE	IF	CITATIONS
19	Influence of aluminates on the hydration kinetics of tricalcium silicate. Cement and Concrete Research, 2017, 100, 245-262.	11.0	146
20	Water content and porosity effect on hydrogen radiolytic yields of geopolymers. Journal of Nuclear Materials, 2017, 494, 138-146.	2.7	26
21	Understanding silicate hydration from quantitative analyses of hydrating tricalcium silicates. Nature Communications, 2016, 7, 10952.	12.8	155
22	Consolidation of artificially degraded polyurethane ester foam with aminoalkylalkoxysilanes. Polymer Degradation and Stability, 2016, 129, 106-113.	5.8	8
23	A multinuclear static NMR study of geopolymerisation. Cement and Concrete Research, 2015, 75, 104-109.	11.0	55
24	Thermal stability and hcpâ€ƒfcc allotropic transformation in supported Co metal catalysts probed near operando by ferromagnetic NMR. Physical Chemistry Chemical Physics, 2015, 17, 14598-14604.	2.8	39
25	Flow properties of MK-based geopolymer pastes. A comparative study with standard Portland cement pastes. Soft Matter, 2014, 10, 1134.	2.7	132
26	Effect of alumina modification on the structure of cobalt-containing Fischer-Tropsch synthesis catalysts according to internal-field ⁵⁹ Co NMR data. Journal of Structural Chemistry, 2013, 54, 102-110.	1.0	13
27	Mechanical properties and compositional heterogeneities of fresh geopolymer pastes. Cement and Concrete Research, 2013, 48, 9-16.	11.0	98
28	The roles of hydration and evaporation during the drying of a cement paste by localized NMR. Cement and Concrete Research, 2013, 48, 86-96.	11.0	22
29	Reinforcement properties of 3-aminopropylmethyldiethoxysilane and N-(2-Aminoethyl)-3-aminopropylmethyldimethoxysilane on polyurethane ester foam. Polymer Degradation and Stability, 2012, 97, 2340-2346.	5.8	9
30	Chemical and Physicochemical Investigation of an Aminoalkylalkoxysilane As Strengthening Agent for Cellulosic Materials. Biomacromolecules, 2011, 12, 2082-2091.	5.4	29
31	Micrometer scale resolution of materials by stray-field Magnetic Resonance Imaging. Journal of Magnetic Resonance, 2011, 211, 60-66.	2.1	13
32	An environmental evaluation of geopolymer based concrete production: reviewing current research trends. Journal of Cleaner Production, 2011, 19, 1229-1238.	9.3	895
33	Retarded transfers of an emulsified two-component oil phase. Physical Review E, 2011, 83, 031403.	2.1	2
34	Analysis of multisite 2D relaxation exchange NMR. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2010, 36A, 153-169.	0.5	67
35	Boiling of an emulsion in a yield stress fluid. Physical Review E, 2010, 82, 051502.	2.1	5
36	Density Functional Theory Calculations of ⁹⁵ Mo NMR Parameters in Solidâ€ƒState Compounds. ChemPhysChem, 2009, 10, 3320-3329.	2.1	21

#	ARTICLE	IF	CITATIONS
37	Surface and Intercalation Chemistry of Polycarboxylate Copolymers in Cementitious Systems. Journal of the American Ceramic Society, 2009, 92, 2471-2488.	3.8	95
38	Evaporation of an emulsion trapped in a yield stress fluid. European Physical Journal E, 2009, 28, 463-468.	1.6	6
39	Geopolymers from Algerian metakaolin. Influence of secondary minerals. Applied Clay Science, 2009, 43, 453-458.	5.2	107
40	MAS NMR spectra of quadrupolar nuclei in disordered solids: The Czjzek model. Journal of Magnetic Resonance, 2008, 192, 244-251.	2.1	270
41	Changes in humic acid conformation during coagulation with ferric chloride: Implications for drinking water treatment. Water Research, 2008, 42, 2111-2123.	11.3	87
42	Is ^{129}Xe NMR a useful technique for probing the pore structure and surface properties of carbonaceous solids?. Microporous and Mesoporous Materials, 2007, 105, 118-123.	4.4	10
43	^{129}Xe NMR study of the localization of PdCl ₂ supported on carbon nanotubes. Reaction Kinetics and Catalysis Letters, 2007, 90, 355-364.	0.6	5
44	MAS NMR Strategies for the Characterization of Supported Molybdenum Catalysts. Applied Magnetic Resonance, 2007, 32, 499-511.	1.2	12
45	^{129}Xe Nuclear Magnetic Resonance Study of Pitch-Based Activated Carbon Modified by Air Oxidation/Pyrolysis Cycles: A New Approach to Probe the Micropore Size. Journal of Physical Chemistry B, 2006, 110, 3055-3060.	2.6	16
46	Fate of coagulant species and conformational effects during the aggregation of a model of a humic substance with Al ¹³ polycations. Water Research, 2006, 40, 1965-1974.	11.3	73
47	Applicability of natural abundance ^{33}S solid-state NMR to cement chemistry. Cement and Concrete Research, 2006, 36, 1781-1783.	11.0	24
48	^{129}Xe NMR investigation of catalytic filamentous carbon. Microporous and Mesoporous Materials, 2005, 81, 41-48.	4.4	24
49	Interactions between chloride and cement-paste materials. Magnetic Resonance Imaging, 2005, 23, 267-272.	1.8	65
50	^{129}Xe NMR study of Xe adsorption on multiwall carbon nanotubes. Solid State Nuclear Magnetic Resonance, 2005, 28, 135-141.	2.3	29
51	"Cooking the sample": Radiofrequency induced heating during solid-state NMR experiments. Solid State Nuclear Magnetic Resonance, 2005, 28, 225-232.	2.3	26
52	^{95}Mo Magic Angle Spinning NMR at High Field: Improved Measurements and Structural Analysis of the Quadrupole Interaction in Monomolybdates and Isopolymolybdates. Journal of Physical Chemistry B, 2005, 109, 14033-14042.	2.6	54
53	Solid-state NMR study of [(Ph ₃ SnF) ₂ (Ph ₃ SnO ₂ PPh ₂)], a novel coordination polymer prepared from Bu ₄ N[Ph ₃ SnF ₂] and [Ph ₃ SnOPPh ₂ OSnPh ₃](O ₃ SCF ₃). Applied Organometallic Chemistry, 2004, 18, 353-358.	3.5	6
54	Solid-state ^1H and ^{27}Al NMR studies of amorphous aluminum hydroxides. Journal of Colloid and Interface Science, 2003, 261, 320-324.	9.4	114

#	ARTICLE	IF	CITATIONS
55	29Si and 27Al MAS NMR study of the zeolitization of kaolin by alkali leaching. Clay Minerals, 2003, 38, 49-61.	0.6	38
56	Influence of layer charge on the hydroxyl stretching of trioctahedral clay minerals: A vibrational study of synthetic Na- and K-saponites. American Mineralogist, 2003, 88, 1801-1808.	1.9	36
57	Hydration Water and Swelling Behavior of Magadiite. The H+, Na+, K+, Mg2+, and Ca2+-Exchanged Forms. Journal of Physical Chemistry B, 2002, 106, 730-742.	2.6	52
58	Organic-inorganic phase interaction in A1SBA-15 mesoporous solids by double resonance NMR spectroscopy. Studies in Surface Science and Catalysis, 2002, , 423-428.	1.5	4
59	27Al MQ-MAS NMR as a Tool for Structure Determination in Nanocomposite Materials: The Nature of Al Pillars in Al-pillared Clays. Journal of Physical Chemistry B, 2002, 106, 4133-4138.	2.6	16
60	63Cu-NMR studies of crystalline and thin-film CuInSe2. Thin Solid Films, 2001, 387, 235-238.	1.8	7
61	Dealumination and surface fluorination of H-ZSM-5 by molecular fluorine. Microporous and Mesoporous Materials, 2001, 50, 41-52.	4.4	16
62	Reaction of HY Zeolite with Molecular Fluorine. Journal of Catalysis, 2001, 201, 80-88.	6.2	21
63	High-Resolution Solid-State Nmr: a Versatile Tool for the Study of Al-O-P Clusters. Phosphorus, Sulfur and Silicon and the Related Elements, 2001, 168, 243-248.	1.6	0
64	Identification of fluorine sites at the surface of fluorinated γ -alumina by two-dimensional MAS NMR. Solid State Nuclear Magnetic Resonance, 2000, 16, 85-91.	2.3	51
65	Formation Mechanism of the Ga13Keggin Ion: A Combined EXAFS and NMR Study. Journal of the American Chemical Society, 2000, 122, 6048-6056.	13.7	51
66	On the silica edge, an NMR point of view. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 158, 157-163.	4.7	18
67	A New Straightforward Approach to Generate Si-H Groups on Silica. Journal of Colloid and Interface Science, 1999, 215, 296-299.	9.4	13
68	Direct synthesis of A1SBA mesoporous molecular sieves: characterization and catalytic activities. Chemical Communications, 1999, , 1967-1968.	4.1	236
69	The Support as a Chemical Reagent in the Preparation of WOx/ γ -Al2O3 Catalysts: Formation and Deposition of Aluminotungstic Heteropolyanions. Journal of the American Chemical Society, 1999, 121, 3377-3381.	13.7	49
70	Analysis of the REDOR Signal and Inversion. Journal of Magnetic Resonance, 1998, 133, 273-280.	2.1	24
71	29Si and 129Xe NMR of Mn2+ doped silica xerogels. Journal of Non-Crystalline Solids, 1998, 231, 49-57.	3.1	16
72	Local Composition of Silicon Oxycarbides Obtained by Laser Spray Pyrolysis. Chemistry of Materials, 1997, 9, 632-639.	6.7	32

#	ARTICLE	IF	CITATIONS
73	Water Adsorption on Pyrogenic Silica Followed by ^1H MAS NMR. <i>Journal of Colloid and Interface Science</i> , 1997, 194, 434-439.	9.4	66
74	Neoformation of DLH During Impregnation of γ -Al ₂ O ₃ . <i>European Physical Journal Special Topics</i> , 1997, 7, C2-957-C2-958.	0.2	0
75	High-resolution ^{29}Si solid-state NMR study of silicon functionality distribution on the surface of silicas. <i>Magnetic Resonance Imaging</i> , 1996, 14, 911-913.	1.8	57
76	Synthesis, X-ray diffraction and solid-state ^{31}P magic angle spinning NMR study of β -tricalcium orthophosphate. <i>Journal of Materials Science: Materials in Medicine</i> , 1996, 7, 457-463.	3.6	36
77	Spin- Hahn echoes in solids. <i>Solid State Nuclear Magnetic Resonance</i> , 1995, 5, 181-188.	2.3	13
78	A new microporous material: aluminated sepiolite. <i>Microporous Materials</i> , 1995, 5, 135-142.	1.6	20
79	Modification of the Surface Properties of Natural Phyllosilicate Sepiolite by Secondary Isomorphic Substitution. <i>Journal of Catalysis</i> , 1995, 151, 420-430.	6.2	23
80	Alumina/water interfacial phenomena during impregnation. <i>Studies in Surface Science and Catalysis</i> , 1995, 91, 169-184.	1.5	10
81	^{29}Si NMR Observation of an Amorphous Magnesium Silicate Formed during Impregnation of Silica with Mg(II) in Aqueous Solution. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17273-17281.	2.9	64
82	Hydrotalcite formation at the alumina/water interface during impregnation with Ni (II) aqueous solutions at neutral pH. <i>Applied Clay Science</i> , 1995, 10, 45-56.	5.2	28
83	A reassessment of the ^{29}Si MAS-NMR spectra of sepiolite and aluminated sepiolite. <i>Clay Minerals</i> , 1994, 29, 313-318.	0.6	31
84	Decoration of Nickel and Magnesium Oxide Crystallites with Spinel-Type Phases. <i>Journal of the American Chemical Society</i> , 1994, 116, 1707-1717.	13.7	131
85	The Coordination of Aluminum Ions in the Palygorskite Structure. <i>Clays and Clay Minerals</i> , 1992, 40, 457-461.	1.3	57
86	Al modified sepiolite as catalyst or catalyst support. <i>Catalysis Today</i> , 1992, 14, 125-140.	4.4	30
87	Dealumination and Aluminum Intercalation of Vermiculite. <i>Clays and Clay Minerals</i> , 1991, 39, 270-280.	1.3	18
88	The intercalation process of N-alkyl amines or ammoniums within the structure of KTiNbO_5 . <i>Journal of Colloid and Interface Science</i> , 1989, 132, 337-351.	9.4	29
89	Design of Al ₂ O ₃ /CoAlO ₃ /CoAl Porous Ceramometal for Multiple Applications as Catalytic Supports. <i>Advanced Materials Research</i> , 0, 702, 79-87.	0.3	7