CÃ©dric Carteret

List of Publications by Year
in descending order

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91 papers	2,803 citations	159525 30 h-index	189801 50 g-index
95 all docs	95 docs citations	95 times ranked	4330 citing authors

#	Article	IF	Citations
1	Divalent metal release and antimicrobial effects of layered double hydroxides. Applied Clay Science, 2022, 216, 106369.	2.6	12
2	Thermal stability and phase transformation of semi-crystalline mesostructured TiO2 in the presence of heteroelements. Microporous and Mesoporous Materials, 2021, 315, 110896.	2.2	8
3	Simultaneous variable selection for the classification of near infrared spectra. Chemometrics and Intelligent Laboratory Systems, 2021, 211, 104268.	1.8	7
4	Effect of Sb on precipitation of biogenic minerals during the reduction of Sb-bearing ferrihydrites. Geochimica Et Cosmochimica Acta, 2021, 309, 96-111.	1.6	11
5	Thin Films of SiP Lamellar Alloys: A First Step toward 2D SiP. Journal of Physical Chemistry C, 2021, 125, 3235-3241.	1.5	6
6	Hydration Properties and Interlayer Organization in Synthetic C-S-H. Langmuir, 2020, 36, 9449-9464.	1.6	28
7	Amorphous mesostructured zirconia with high (hydro)thermal stability. RSC Advances, 2020, 10, 26165-26176.	1.7	10
8	Formation of SiP₂ Nanocrystals Embedded in SiO₂ from Phosphorus-Rich SiO_{1.5} Thin Films. Journal of Physical Chemistry C, 2020, 124, 7973-7978.	1.5	4
9	Thermal and Hydrothermal Stability of Hierarchical Porous Silica Materials. European Journal of Inorganic Chemistry, 2019, 2019, 3194-3202.	1.0	7
10	Experimental and Theoretical Infrared Signatures of REMO₃ (RE = La, Pr, Nd, Sm, and M =) Tj ETQq0 0 0 rgBT /Overlock 10	1.5	8
11	Using factorial experimental design to optimize biocatalytic biodiesel production from Mucor Miehei Lipase immobilized onto ordered mesoporous materials. Microporous and Mesoporous Materials, 2018, 268, 39-45.	2.2	19
12	Influence of crystallization conditions and of gaseous ammonia treatment on mesoporous TiO2 properties. Microporous and Mesoporous Materials, 2018, 262, 1-12.	2.2	5
13	Assessment of an anti-scale low-frequency electromagnetic field device on drinking water biofilms. Biofouling, 2018, 34, 1020-1031.	0.8	5
14	Selective direct desulfurization way (DDS) with CoMoS supported over mesostructured titania for the deep hydrodesulfurization of 4,6-dimethydibenzothiophene. Applied Catalysis A: General, 2018, 563, 91-97.	2.2	20
15	Abiotically or microbially mediated transformations of magnetite by sulphide species: The unforeseen role of nitrate-reducing bacteria. Corrosion Science, 2018, 142, 31-44.	3.0	7
16	Carbonateâ€“Hydrogenocarbonate Coexistence and Dynamics in Layered Double Hydroxides. Journal of Physical Chemistry C, 2017, 121, 6104-6112.	1.5	23
17	Enhanced photocatalytic ability of Cu, Co doped ZnAl based mixed metal oxides derived from layered double hydroxides. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 524, 43-52.	2.3	28
18	Probing the Dynamics of Layered Double Hydroxides by Solid-State ²⁷Al NMR Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 7276-7281.	1.5	8

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19	Insights into the Formation and Properties of Templated Dual Mesoporous Titania with Enhanced Photocatalytic Activity. ACS Applied Materials & Interfaces, 2017, 9, 3113-3122.	4.0	17
20	Ternary Layered Double Hydroxides (LDHs) Based on Co-, Cu-Substituted ZnAl for the Design of Efficient Photocatalysts. European Journal of Inorganic Chemistry, 2017, 2017, 669-678.	1.0	43
21	LaFeOxNy perovskite thin films: Nitrogen location and its effect on morphological, optical and structural properties. Journal of Alloys and Compounds, 2017, 724, 74-83.	2.8	9
22	A regularized sparse approximation method for hyperspectral image classification. , 2016, , .		0
23	Enhanced catalytic oxidation ability of ternary layered double hydroxides for organic pollutants degradation. Dalton Transactions, 2016, 45, 8224-8235.	1.6	32
24	Bayesian Positive Source Separation for Spectral Mixture Analysis. Data Handling in Science and Technology, 2016, 30, 279-309.	3.1	0
25	Properties of rare-earth orthoferrites perovskite driven by steric hindrance. Journal of Alloys and Compounds, 2016, 657, 631-638.	2.8	32
26	Simultaneous regularized sparse approximation for wood wastes NIR spectra features selection. , 2015, , .		4
27	Tuning and Investigating the Structure of M^{II}-Fe^{III} Layered Double Hydroxides (M^{II} = Ni^{II}, Co^{II}) Tj ETQq1 1 0.784314 rgBT Properties. Current Inorganic Chemistry, 2015, 5, 169-183.	0.2	12
28	Correction: Multivalency: influence of the residence time and the retraction rate on rupture forces measured by AFM. Journal of Materials Chemistry B, 2015, 3, 3098-3098.	2.9	0
29	Remineralization of ferrous carbonate from bioreduction of natural goethite in the Lorraine iron ore (Minette) by Shewanella putrefaciens. Chemical Geology, 2015, 412, 48-58.	1.4	10
30	Znâ€“TiO2 mesoporous oxides prepared by mechanical milling. Journal of Alloys and Compounds, 2015, 649, 1-10.	2.8	11
31	Multivalency: influence of the residence time and the retraction rate on rupture forces measured by AFM. Journal of Materials Chemistry B, 2015, 3, 1801-1812.	2.9	7
32	Modelling the Structure and Vibrational Properties of Layered Double Hydroxides. , 2015, , 317-323.		1
33	The Raman spectrum of CaCO3 polymorphs calcite and aragonite: A combined experimental and computational study. Journal of Chemical Physics, 2014, 140, 164509.	1.2	131
34	Origin of the Differential Nanoscale Reactivity of Biologically and Chemically Formed Green Rust Crystals Investigated by Chemical Force Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 5978-5987.	1.5	14
35	Water-Catalyzed Low-Temperature Transformation from Amorphous to Semi-Crystalline Phase of Ordered Mesoporous Titania Framework. ACS Sustainable Chemistry and Engineering, 2014, 2, 120-125.	3.2	14
36	Influence of Zn ion addition on the properties of ordered mesoporous TiO2. New Journal of Chemistry, 2014, 38, 2081.	1.4	12

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37	A step towards controlled-diameter single walled carbon nanotubes. Carbon, 2014, 67, 753-765.	5.4	4
38	Infrared spectroscopy and multivariate analysis to appraise Î±-cellulose extracted from wood for stable carbon isotope measurements. Chemical Geology, 2014, 381, 168-179.	1.4	22
39	Nitrate reduction by mixed iron(II-III) hydroxycarbonate green rust in the presence of phosphate anions: The key parameters influencing the ammonium selectivity. Water Research, 2014, 62, 29-39.	5.3	45
40	Multi-techniques investigation of mesoporous zinc and tungsten titanates materials. Microporous and Mesoporous Materials, 2014, 194, 208-218.	2.2	2
41	Low Biotinyl Glycogen: A Model for Single-Molecule Force Analysis of Branched Biological Macromolecules. Journal of Bionanoscience, 2014, 8, 445-454.	0.4	0
42	Room temperature bistability with wide thermal hysteresis in a spin crossover silica nanocomposite. Journal of Materials Chemistry C, 2013, 1, 1933.	2.7	81
43	Facile and green release of template from mesostructured titania. RSC Advances, 2013, 3, 14970.	1.7	4
44	Ordered mesoporous materials containing Mucor Miehei Lipase as biocatalyst for transesterification reaction. Process Biochemistry, 2013, 48, 831-837.	1.8	21
45	Investigation of properties of mesoporous silica materials based on nonionic fluorinated surfactant using Boxâ€“Behnken experimental designs. Microporous and Mesoporous Materials, 2013, 174, 135-143.	2.2	11
46	Hydrothermal Stability of Ordered Surfactant-Templated Titania. Journal of Physical Chemistry C, 2013, 117, 16500-16508.	1.5	14
47	Cation size effect on the thermochromic properties of rare earth cobaltitesRECoO₃(RE: La, Nd, Sm). Journal of Applied Physics, 2013, 114, 113510.	1.1	13
48	Hydrolysis of mixed Ni2+â€“Fe3+ and Mg2+â€“Fe3+ solutions and mechanism of formation of layered double hydroxides. Dalton Transactions, 2013, 42, 15687.	1.6	53
49	Isocyanate-mediated covalent immobilization of Mucor miehei lipase onto SBA-15 for transesterification reaction. Colloids and Surfaces B: Biointerfaces, 2013, 112, 139-145.	2.5	28
50	Use of ab initio methods for the interpretation of the experimental IR reflectance spectra of crystalline compounds. Journal of Computational Chemistry, 2013, 34, 1476-1485.	1.5	12
51	Nanoparticle-free magnetic mesoporous silica with magneto-responsive surfactants. Journal of Materials Chemistry C, 2013, 1, 6930.	2.7	24
52	The vibrational spectrum of CaCO3 aragonite: A combined experimental and quantum-mechanical investigation. Journal of Chemical Physics, 2013, 138, 014201.	1.2	92
53	Chemisorbed nickel catalyst for the production of SWCNTs with a very narrow size distribution. Physica Status Solidi (B): Basic Research, 2013, 250, 2581-2585.	0.7	0
54	Synthesis and Photoactivity of Ordered Mesoporous Titania with a Semicrystalline Framework. Journal of Physical Chemistry C, 2012, 116, 6585-6594.	1.5	69

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55	Structural Cohesion of M^{II}-M^{III} Layered Double Hydroxides Crystals: Electrostatic Forces and Cationic Polarizing Power. Crystal Growth and Design, 2012, 12, 4324-4333.	1.4	41
56	A comparison of different concentration methods for the detection of viruses present in bottled waters and those adsorbed to water bottle surfaces. Journal of Virological Methods, 2012, 181, 18-24.	1.0	11
57	Micro-crystal orientations estimation in polarized Raman microscopy using an acquisition scheme with multiple diversities. , 2011, , .		0
58	Hydrolysis of Uranyl(VI) in Acidic and Basic Aqueous Solutions Using a Noncomplexing Organic Base: A Multivariate Spectroscopic and Statistical Study. Inorganic Chemistry, 2011, 50, 2811-2823.	1.9	62
59	Multitechnique Investigation of Mesoporous Titanosilicate Materials Prepared from Both the Self-Assembly and the Liquid Crystal Mechanisms. Journal of Physical Chemistry C, 2011, 115, 8684-8692.	1.5	13
60	Tunable composition of Nillâ€“AlIII and Nillâ€“FeIII layered hydroxides within a wide range of layer charge. Solid State Sciences, 2011, 13, 146-150.	1.5	17
61	Confined Growth of Spin Crossover Nanoparticles in Surfactant-Based Matrices: Enhancing Shape Anisotropy. Journal of Dispersion Science and Technology, 2011, 32, 1771-1779.	1.3	19
62	Joint processing of the parallel and crossed polarized Raman spectra and uniqueness in blind nonnegative source separation. Chemometrics and Intelligent Laboratory Systems, 2011, 105, 7-18.	1.8	20
63	Vibrational properties of polysiloxanes: from dimer to oligomers and polymers. 1. Structural and vibrational properties of hexamethyldisiloxane (CH₃)₃SiOSi(CH₃)₃. Journal of Raman Spectroscopy, 2010, 41, 996-1004.	1.2	26
64	Preparation and characterization of mesoporous materials from a nonionic fluorinated surfactant: Adsorption of glucose oxidase. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 357, 128-135.	2.3	18
65	Highly ordered mesoporous titania with semi crystalline framework templated by large or small nonionic surfactants. New Journal of Chemistry, 2010, 34, 2113.	1.4	32
66	Synthesis and transformation of iron-based layered double hydroxides. Applied Clay Science, 2010, 48, 195-202.	2.6	39
67	Bayesian separation of spectral sources under non-negativity and full additivity constraints. Signal Processing, 2009, 89, 2657-2669.	2.1	71
68	Polymorphism Studied by Lattice Phonon Raman Spectroscopy and Statistical Mixture Analysis Method. Application to Calcium Carbonate Polymorphs during Batch Crystallization. Crystal Growth and Design, 2009, 9, 807-812.	1.4	79
69	Mid- and Near-Infrared Study of Hydroxyl Groups at a Silica Surface: H-Bond Effect. Journal of Physical Chemistry C, 2009, 113, 13300-13308.	1.5	37
70	Reductive transformation and mineralization of an azo dye by hydroxysulphate green rust preceding oxidation using H2O2 at neutral pH. Chemosphere, 2009, 75, 212-219.	4.2	30
71	Temperature effect on the acidâ€“base behaviour of Na-montmorillonite. Journal of Colloid and Interface Science, 2008, 327, 472-476.	5.0	12
72	Hydrothermal stability of mesostructured silica prepared using a nonionic fluorinated surfactant. Microporous and Mesoporous Materials, 2008, 116, 308-317.	2.2	25

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73	Sorption of methylene blue on an organoclay bearing thiol groups and application to electrochemical sensing of the dye. Talanta, 2008, 74, 489-497.	2.9	70
74	Sorption of 1-hydroxy-2-naphthoic acid to goethite, lepidocrocite and ferrihydrite: Batch experiments and infrared study. Chemosphere, 2007, 70, 178-186.	4.2	41
75	Biogenic hydroxysulfate green rust, a potential electron acceptor for SRB activity. Geochimica Et Cosmochimica Acta, 2007, 71, 5450-5462.	1.6	41
76	Investigation of the Silanols Groups of Mesostructured Silica Prepared Using a Fluorinated Surfactant:â€‰ Influence of the Hydrothermal Temperature. Journal of Physical Chemistry C, 2007, 111, 14380-14388.	1.5	42
77	An ab initio and DFT study of structure and vibrational spectra of disiloxane H3SiOSiH3 conformers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 67, 1421-1429.	2.0	8
78	Separation of Non-Negative Mixture of Non-Negative Sources Using a Bayesian Approach and MCMC Sampling. IEEE Transactions on Signal Processing, 2006, 54, 4133-4145.	3.2	148
79	Bayesian analysis of spectral mixture data using Markov Chain Monte Carlo Methods. Chemometrics and Intelligent Laboratory Systems, 2006, 81, 137-148.	1.8	55
80	Vibrational properties of silanol group: From alkylsilanol to small silica cluster. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 64, 670-680.	2.0	24
81	Monitoring structural transformation of hydroxy-sulphate green rust in the presence of sulphate reducing bacteria. Hyperfine Interactions, 2006, 167, 723-727.	0.2	0
82	Raman Spectroscopy â€“ A Powerful Tool for the Quantitative Determination of the Composition of Polymorph Mixtures: Application to CaCO3 Polymorph Mixtures. Chemical Engineering and Technology, 2006, 29, 221-225.	0.9	81
83	Background removal from spectra by designing and minimising a non-quadratic cost function. Chemometrics and Intelligent Laboratory Systems, 2005, 76, 121-133.	1.8	240
84	Formation of Hydroxysulphate Green Rust 2 as a Single Iron(II-III) Mineral in Microbial Culture. Geomicrobiology Journal, 2005, 22, 389-399.	1.0	58
85	Direct One-Step Immobilization of Glucose Oxidase in Well-Ordered Mesostructured Silica Using a Nonionic Fluorinated Surfactant. Chemistry of Materials, 2005, 17, 1479-1486.	3.2	80
86	Hydration of a Synthetic Clay with Tetrahedral Charges:â€‰ A Multidisciplinary Experimental and Numerical Study. Journal of Physical Chemistry B, 2005, 109, 23745-23759.	1.2	88
87	Competitive Formation of Hydroxycarbonate Green Rust 1 versus Hydroxysulphate Green Rust 2 inShewanella putrefaciensCultures. Geomicrobiology Journal, 2004, 21, 79-90.	1.0	40
88	Functionalization of natural smectite-type clays by grafting with organosilanes: physico-chemical characterization and application to mercury(ii) uptake. Physical Chemistry Chemical Physics, 2003, 5, 4951.	1.3	109
89	Effect of heat treatment on boron impurity in Vycor. Part I. Near infrared spectra and ab initio calculations of the vibrations of model molecules for surface boranols. Physical Chemistry Chemical Physics, 2000, 2, 1747-1755.	1.3	7
90	Near infrared and ab initio study of the vibrational modes of isolated silanol on silica. Physical Chemistry Chemical Physics, 2000, 2, 3217-3226.	1.3	51

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91	Effect of heat treatment on boron impurity in Vycor. Part II. Migration, reactivity with vapour water and dissolution in liquid water. Physical Chemistry Chemical Physics, 2000, 2, 1757-1762.	1.3	7