ClÃ©ment Sanchez

List of Publications by Year
in descending order

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119	20,712	34105 52	21540 114
papers	citations	h-index	g-index

121	121	121	22229
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Shedding Light on Functional Hybrid Nanocomposites 19th Century Paint Medium. Advanced Functional Materials, 2022, 32, 2106346.	14.9	3
2	Metal-Induced Crystallization in Metal Oxides. Accounts of Chemical Research, 2022, 55, 171-185.	15.6	9
3	Liquid Processing of Bismuthâ€“Silica Nanoparticle/Aluminum Matrix Nanocomposites for Heat Storage Applications. ACS Applied Nano Materials, 2022, 5, 1917-1924.	5.0	2
4	A Confinementâ€Driven Nucleation Mechanism of Metal Oxide Nanoparticles Obtained via Thermal Decomposition in Organic Media. Small, 2022, 18, e2200414.	10.0	5
5	Early transition metal nano-carbides and nano-hydrides from solid-state metathesis initiated at room temperature. Green Chemistry, 2021, 23, 6431-6448.	9.0	3
6	Liquid-Phase Synthesis, Sintering, and Transport Properties of Nanoparticle-Based Boron-Rich Composites. Chemistry of Materials, 2021, 33, 2099-2109.	6.7	3
7	Interlayer Silylation of Layered Octosilicate with Organoalkoxysilanes: Effects of Tetrabutylammonium Fluoride as a Catalyst and the Functional Groups of Silanes. European Journal of Inorganic Chemistry, 2021, 2021, 1836-1845.	2.0	4
8	The origin of the high electrochemical activity of pseudo-amorphous iridium oxides. Nature Communications, 2021, 12, 3935.	12.8	56
9	Ultrasoundâ€Assisted Liquidâ€Phase Synthesis and Mechanical Properties of Aluminum Matrix Nanocomposites Incorporating Boride Nanocrystals. Small, 2021, , 2104091.	10.0	0
10	Exceptional Low-Temperature CO Oxidation over Noble-Metal-Free Iron-Doped Hollandites: An In-Depth Analysis of the Influence of the Defect Structure on Catalytic Performance. ACS Catalysis, 2021, 11, 15026-15039.	11.2	5
11	Hollow zeolite microspheres as a nest for enzymes: a new route to hybrid heterogeneous catalysts. Chemical Science, 2020, 11, 954-961.	7.4	52
12	Unraveling the Role of Alkali Cations in the Growth Mechanism of Gd₂O₂S Nanoparticles. Chemistry of Materials, 2020, 32, 1131-1139.	6.7	8
13	Aerosol synthesis of thermally stable porous noble metals and alloys by using bi-functional templates. Materials Horizons, 2020, 7, 541-550.	12.2	13
14	Selfâ€Assembled Collagen Microparticles by Aerosol as a Versatile Platform for Injectable Anisotropic Materials. Small, 2020, 16, e1902224.	10.0	11
15	Hierarchy: enhancing performances beyond limits. National Science Review, 2020, 7, 1624-1625.	9.5	5
16	Correlative Microscopy Insight on Electrodeposited Ultrathin Graphite Oxide Films. Journal of Physical Chemistry Letters, 2020, 11, 9117-9122.	4.6	3
17	Hydroxyapatites as Versatile Inorganic Hosts of Unusual Pentavalent Manganese Cations. Chemistry of Materials, 2020, 32, 10584-10593.	6.7	2
18	Origin of transparency in scattering biomimetic collagen materials. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11947-11953.	7.1	13

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19	Unambiguous localization of titanium and iron cations in doped manganese hollandite nanowires. Chemical Communications, 2020, 56, 4812-4815.	4.1	6
20	Phase selective synthesis of nickel silicide nanocrystals in molten salts for electrocatalysis of the oxygen evolution reaction. Nanoscale, 2020, 12, 15209-15213.	5.6	22
21	Following in Situ the Degradation of Mesoporous Silica in Biorelevant Conditions: At Last, a Good Comprehension of the Structure Influence. ACS Applied Materials & Interfaces, 2020, 12, 13598-13612.	8.0	25
22	A Single Molecular Stoichiometric Pâ€Source for Phaseâ€Selective Synthesis of Crystalline and Amorphous Iron Phosphide Nanocatalysts. ChemNanoMat, 2020, 6, 1208-1219.	2.8	6
23	Anatase TiO₂ Nanorods as Cathode Materials for Aluminum-Ion Batteries. ACS Applied Nano Materials, 2019, 2, 6428-6435.	5.0	40
24	Morphological and Structural Evolution of Co₃O₄ Nanoparticles Revealed by in Situ Electrochemical Transmission Electron Microscopy during Electrocatalytic Water Oxidation. ACS Nano, 2019, 13, 11372-11381.	14.6	140
25	Thermal Stability of Oleateâ€Stabilized Gd 2 O 2 S Nanoplates in Inert and Oxidizing Atmospheres. ChemNanoMat, 2019, 5, 539-546.	2.8	8
26	Aerosol Route to TiO₂â€“SiO₂Catalysts with Tailored Pore Architecture and High Epoxidation Activity. Chemistry of Materials, 2019, 31, 1610-1619.	6.7	50
27	Band Gap Engineering from Cation Balance: The Case of Lanthanide Oxysulfide Nanoparticles. Chemistry of Materials, 2019, 31, 5014-5023.	6.7	17
28	Different Reactivity of Rutile and Anatase TiO₂ Nanoparticles: Synthesis and Surface States of Nanoparticles of Mixedâ€Valence MagnÃ©li Oxides. Chemistry - A European Journal, 2019, 25, 11114-11120.	3.3	3
29	Interdiffusive Surfactant Procedure for the Preparation of Nanoarchitectured Porous Films: Application to the Growth of Titania Thin Films on Silicon Substrates. Langmuir, 2019, 35, 7169-7174.	3.5	1
30	Dumbbell-Shaped T8 -POSS with Functional Organic Linkers. European Journal of Inorganic Chemistry, 2019, 2019, 3148-3156.	2.0	2
31	Mesoporous TiO₂ Support Materials for Ru-Based CO₂ Methanation Catalysts. ACS Applied Nano Materials, 2019, 2, 3220-3230.	5.0	34
32	Tunable Magnetic Properties of (Gd,Ce)₂O₂S Oxysulfide Nanoparticles. European Journal of Inorganic Chemistry, 2019, 2019, 741-741.	2.0	0
33	Alkoxysilane effect in hybrid material: A comparison of pHEMA-TiO2 and pMAPTMS-TiO2 nanoparticulate hybrids. Materials Research Bulletin, 2019, 114, 130-137.	5.2	5
34	Structure and electrochromism of two-dimensional octahedral molecular sieve hâ€™-WO3. Nature Communications, 2019, 10, 327.	12.8	88
35	Tunable Magnetic Properties of (Gd,Ce)₂O₂S Oxysulfide Nanoparticles. European Journal of Inorganic Chemistry, 2019, 2019, 762-765.	2.0	4
36	Hierarchically Structured Ultraporous Iridiumâ€Based Materials: A Novel Catalyst Architecture for Proton Exchange Membrane Water Electrolyzers. Advanced Energy Materials, 2019, 9, 1802136.	19.5	72

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37	Aerosol processing: a wind of innovation in the field of advanced heterogeneous catalysts. Chemical Society Reviews, 2018, 47, 4112-4155.	38.1	117
38	Multicationic Sr4Mn3O10 mesostructures: molten salt synthesis, analytical electron microscopy study and reactivity. Materials Horizons, 2018, 5, 480-485.	12.2	5
39	CO2 methanation on Ru/TiO2 catalysts: On the effect of mixing anatase and rutile TiO2 supports. Applied Catalysis B: Environmental, 2018, 220, 615-625.	20.2	141
40	Nanocellulose, a Versatile Green Platform: From Biosources to Materials and Their Applications. Chemical Reviews, 2018, 118, 11575-11625.	47.7	1,008
41	Surprisingly high sensitivity of copper nanoparticles toward coordinating ligands: consequences for the hydride reduction of benzaldehyde. Catalysis Science and Technology, 2018, 8, 5073-5080.	4.1	10
42	Nickel-Doped Sodium Cobaltite 2D Nanomaterials: Synthesis and Electrocatalytic Properties. Chemistry of Materials, 2018, 30, 4986-4994.	6.7	17
43	In situ insight into the unconventional ruthenium catalyzed growth of carbon nanostructures. Nanoscale, 2018, 10, 14957-14965.	5.6	11
44	History of Organicâ€“Inorganic Hybrid Materials: Prehistory, Art, Science, and Advanced Applications. Advanced Functional Materials, 2018, 28, 1704158.	14.9	264
45	Hierarchically porous materials: synthesis strategies and structure design. Chemical Society Reviews, 2017, 46, 481-558.	38.1	1,030
46	Surfaceâ€Driven Magnetotransport in Perovskite Nanocrystals. Advanced Materials, 2017, 29, 1604745.	21.0	21
47	Synthesis of Ce₂O₂S and Gd_{2(1â€“y)}Ce_{2y}O₂S Nanoparticles and Reactivity from in Situ X-ray Absorption Spectroscopy and X-ray Photoelectron Spectroscopy. Inorganic Chemistry, 2017, 56, 14227-14236.	4.0	22
48	In Situ Solidâ€“Gas Reactivity of Nanoscaled Metal Borides from Molten Salt Synthesis. Inorganic Chemistry, 2017, 56, 9225-9234.	4.0	42
49	An expeditious synthesis of early transition metal carbide nanoparticles on graphitic carbons. Chemical Communications, 2016, 52, 9546-9549.	4.1	9
50	New route toward nanosized crystalline metal borides with tuneable stoichiometry and variable morphologies. Faraday Discussions, 2016, 191, 511-525.	3.2	37
51	Selective CO₂ methanation on Ru/TiO₂ catalysts: unravelling the decisive role of the TiO₂ support crystal structure. Catalysis Science and Technology, 2016, 6, 8117-8128.	4.1	84
52	First acidic macro-mesocellular aluminosilicate monolithic foams â€œSiAl(HIPE)â€•and their catalytic properties. Chemical Communications, 2015, 51, 14018-14021.	4.1	36
53	Crystallization of hollow mesoporous silica nanoparticles. Chemical Communications, 2015, 51, 4164-4167.	4.1	24
54	Original Electrospun Coreâ€“Shell Nanostructured MagnÃ©li Titanium Oxide Fibers and their Electrical Properties. Advanced Materials, 2014, 26, 2654-2658.	21.0	25

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55	Waterâ€induced Phase Separation Forming Macrostructured Epitaxial Quartz Films on Silicon. Advanced Functional Materials, 2014, 24, 5494-5502.	14.9	22
56	Aerosol route to nanostructured WO3-SiO2-Al2O3 metathesis catalysts: Toward higher propene yield. Applied Catalysis A: General, 2014, 470, 458-466.	4.3	54
57	Aerosol Route to Highly Efficient (Co)Mo/SiO₂ Mesoporous Catalysts. Advanced Functional Materials, 2014, 24, 233-239.	14.9	23
58	Effect of the size and distribution of supported Ru nanoparticles on their activity in ammonia synthesis under mild reaction conditions. Applied Catalysis A: General, 2014, 474, 194-202.	4.3	65
59	Mesoscopically structured nanocrystalline metal oxide thin films. Nanoscale, 2014, 6, 14025-14043.	5.6	18
60	Hybrid materials science: a promised land for the integrative design of multifunctional materials. Nanoscale, 2014, 6, 6267-6292.	5.6	168
61	Total oxidation of propane with a nano-RuO2/TiO2 catalyst. Applied Catalysis A: General, 2014, 481, 11-18.	4.3	47
62	Integrative strategies to hybrid lamellar compounds: an integration challenge. Applied Clay Science, 2014, 100, 2-21.	5.2	48
63	Nanoscaled Metal Borides and Phosphides: Recent Developments and Perspectives. Chemical Reviews, 2013, 113, 7981-8065.	47.7	877
64	Structural transitions at the nanoscale: the example of palladium phosphides synthesized from white phosphorus. Dalton Transactions, 2013, 42, 12667.	3.3	32
65	Green scalable aerosol synthesis of porous metalâ€“organic frameworks. Chemical Communications, 2013, 49, 3848.	4.1	103
66	Soft-Chemistryâ€“Based Routes to Epitaxial Î±-Quartz Thin Films with Tunable Textures. Science, 2013, 340, 827-831.	12.6	64
67	Using Evaporation-Induced Self-Assembly for the Direct Drug Templating of Therapeutic Vectors with High Loading Fractions, Tunable Drug Release, and Controlled Degradation. Chemistry of Materials, 2013, 25, 4671-4678.	6.7	24
68	Hybridization in Materials Science â€“ Evolution, Current State, and Future Aspirations. European Journal of Inorganic Chemistry, 2012, 2012, 5097-5105.	2.0	78
69	Improving the Li-Electrochemical Properties of Monodisperse Ni₂P Nanoparticles by Self-Generated Carbon Coating. Chemistry of Materials, 2012, 24, 688-697.	6.7	86
70	Revisiting the Molecular Roots of a Ubiquitously Successful Synthesis: Nickel(0) Nanoparticles by Reduction of [Ni(acetylacetonate)₂]. Chemistry - A European Journal, 2012, 18, 14165-14173.	3.3	43
71	Metal-Dependent Interplay between Crystallization and Phosphorus Diffusion during the Synthesis of Metal Phosphide Nanoparticles. Chemistry of Materials, 2012, 24, 4134-4145.	6.7	71
72	Chemical Modification As a Versatile Tool for Tuning Stability of Silica Based Mesoporous Carriers in Biologically Relevant Conditions. Chemistry of Materials, 2012, 24, 4326-4336.	6.7	55

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73	Tunable Multifunctional Mesoporous Silica Microdots Arrays by Combination of Inkjet Printing, EISA, and Click Chemistry. Chemistry of Materials, 2012, 24, 4337-4342.	6.7	36
74	Nickel phosphide nanocatalysts for the chemoselective hydrogenation of alkynes. Nano Today, 2012, 7, 21-28.	11.9	120
75	Luminescence properties of pHEMA-TiO2 gels based hybrids materials. Journal of Luminescence, 2012, 132, 1192-1199.	3.1	11
76	Oneâ€Pot Aerosol Route to MoO₃â€SiO₂â€Al₂O₃ Catalysts with Ordered Super Microporosity and High Olefin Metathesis Activity. Angewandte Chemie - International Edition, 2012, 51, 2129-2131.	13.8	101
77	Facile General Route toward Tunable MagnÃ©li Nanostructures and Their Use As Thermoelectric Metal Oxide/Carbon Nanocomposites. ACS Nano, 2011, 5, 9052-9061.	14.6	95
78	A sustainable aqueous route to highly stable suspensions of monodispersed nano ruthenia. Green Chemistry, 2011, 13, 3230.	9.0	35
79	Enzyme-based biohybrid foams designed for continuous flow heterogeneous catalysis and biodiesel production. Energy and Environmental Science, 2011, 4, 2840.	30.8	56
80	Applications of advanced hybrid organicâ€“inorganic nanomaterials: from laboratory to market. Chemical Society Reviews, 2011, 40, 696.	38.1	1,235
81	Aerosol Route to Functional Nanostructured Inorganic and Hybrid Porous Materials. Advanced Materials, 2011, 23, 599-623.	21.0	327
82	A General Solution Route toward Metal Boride Nanocrystals. Angewandte Chemie - International Edition, 2011, 50, 3262-3265.	13.8	99
83	â€œChimie douceâ€: A land of opportunities for the designed construction of functional inorganic and hybrid organic-inorganic nanomaterials. Comptes Rendus Chimie, 2010, 13, 3-39.	0.5	270
84	Hydrophobic, Antireflective, Self-Cleaning, and Antifogging Solâ^'Gel Coatings: An Example of Multifunctional Nanostructured Materials for Photovoltaic Cells. Chemistry of Materials, 2010, 22, 4406-4413.	6.7	258
85	Inkjet-Printing-Engineered Functional Microdot Arrays Made of Mesoporous Hybrid Organosilicas. Chemistry of Materials, 2010, 22, 3875-3883.	6.7	20
86	Integrative Approaches to Hybrid Multifunctional Materials: From Multidisciplinary Research to Applied Technologies. Advanced Materials, 2010, 22, 3208-3214.	21.0	131
87	New Aluminosilicate Materials with Hierarchical Porosity Generated by Aerosol Process. Oil and Gas Science and Technology, 2009, 64, 681-696.	1.4	16
88	Direct Aerosol Synthesis of Largeâ€Pore Amorphous Mesostructured Aluminosilicates with Superior Acidâ€Catalytic Properties. Angewandte Chemie - International Edition, 2009, 48, 2784-2787.	13.8	75
89	Laser-induced photopatterning of organicâ€“inorganic TiO2-based hybrid materials with tunable interfacial electron transfer. Physical Chemistry Chemical Physics, 2009, 11, 1248.	2.8	47
90	Bio-inspired synthetic pathways and beyond: integrative chemistry. New Journal of Chemistry, 2008, 32, 1284.	2.8	76

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91	Design, Synthesis, and Properties of Inorganic and Hybrid Thin Films Having Periodically Organized Nanoporosity. Chemistry of Materials, 2008, 20, 682-737.	6.7	735
92	Elaboration of Monodisperse Spherical Hollow Particles with Ordered Mesoporous Silica Shells via Dual Latex/Surfactant Templating: Radial Orientation of Mesopore Channels. Langmuir, 2008, 24, 13132-13137.	3.5	133
93	Inorganic and Hybrid Nanofibrous Materials Templated with Organogelators. Chemistry of Materials, 2008, 20, 782-820.	6.7	236
94	Pyrolysis, Crystallization, and Sintering of Mesostructured Titania Thin Films Assessed by in Situ Thermal Ellipsometry. Journal of the American Chemical Society, 2008, 130, 7882-7897.	13.7	96
95	Coupling Nanobuilding Block and Breath Figures Approaches for the Designed Construction of Hierarchically Templated Porous Materials and Membranes. Chemistry of Materials, 2008, 20, 1049-1056.	6.7	81
96	SPRAY DRYING: A VERSATILE ROUTE FOR THE PREPARATION OF NEW ACIDIC MESOSTRUCTURED POWDERS. , 2008, , .		2
97	Stability of Mesoporous Oxide and Mixed Metal Oxide Materials under Biologically Relevant Conditions. Chemistry of Materials, 2007, 19, 4349-4356.	6.7	146
98	Optimised photocatalytic activity of grid-like mesoporous TiO2films: effect of crystallinity, pore size distribution, and pore accessibility. Journal of Materials Chemistry, 2006, 16, 77-82.	6.7	257
99	Ink Jet Printing of Microdot Arrays of Mesostructured Silica. Journal of the American Ceramic Society, 2006, 89, 1876-1882.	3.8	48
100	Extinction of photo-induced Ti3+ centres in titanium oxide gels and gel-based oxo-PHEMA hybrids. Chemical Physics Letters, 2006, 429, 523-527.	2.6	33
101	Laser imprinting of 3D structures in gel-based titanium oxide organic-inorganic hybrids. Applied Physics A: Materials Science and Processing, 2006, 84, 27-30.	2.3	16
102	Porosity and Mechanical Properties of Mesoporous Thin Films Assessed by Environmental Ellipsometric Porosimetry. Langmuir, 2005, 21, 12362-12371.	3.5	396
103	Biomimetism and bioinspiration as tools for the design of innovative materials and systems. Nature Materials, 2005, 4, 277-288.	27.5	1,294
104	Light-induced charge separation and storage in titanium oxide gels. Physical Review E, 2005, 71, 021403.	2.1	53
105	New photoactive hybrid organicâ€“inorganic materials based on titanium-oxo-PHEMA nanocomposites exhibiting mixed valence properties. Journal of Materials Chemistry, 2005, 15, 3380.	6.7	56
106	Fundamentals of Mesostructuring Through Evaporation-Induced Self-Assembly. Advanced Functional Materials, 2004, 14, 309-322.	14.9	732
107	One-pot aerosol synthesis of ordered hierarchical mesoporous coreâ€“shell silica nanoparticles. Chemical Communications, 2004, , 1630-1631.	4.1	75
108	Controlled Formation of Highly Organized Mesoporous Titania Thin Films:â€‰ From Mesostructured Hybrids to Mesoporous Nanoanatase TiO2. Journal of the American Chemical Society, 2003, 125, 9770-9786.	13.7	871

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109	Nanocrystalline Transition-Metal Oxide Spheres with Controlled Multi-Scale Porosity. Advanced Functional Materials, 2003, 13, 37-42.	14.9	159
110	First in-situ SAXS studies of the mesostructuration of spherical silica and titania particles during spray-drying process. Chemical Communications, 2003, , 2798-2799.	4.1	64
111	Chemical Strategies To Design Textured Materials:â€‰ from Microporous and Mesoporous Oxides to Nanonetworks and Hierarchical Structures. Chemical Reviews, 2002, 102, 4093-4138.	47.7	1,832
112	Designed Hybrid Organicâ^'Inorganic Nanocomposites from Functional Nanobuilding Blocks. Chemistry of Materials, 2001, 13, 3061-3083.	6.7	1,194
113	Sol-gel chemistry. Journal of Non-Crystalline Solids, 1992, 145, 11-19.	3.1	319
114	Chemical modification of alkoxide precursors. Journal of Non-Crystalline Solids, 1988, 100, 65-76.	3.1	741
115	Sol-gel chemistry of transition metal oxides. Progress in Solid State Chemistry, 1988, 18, 259-341.	7.2	2,003
116	The gel route to Cr3+-doped TiO2, an ESR study. Journal of Non-Crystalline Solids, 1987, 89, 84-97.	3.1	32
117	Hydrolysis of titanium alkoxides: Modification of the molecular precursor by acetic acid. Journal of Non-Crystalline Solids, 1987, 89, 206-216.	3.1	598
118	Investigating Nineteenth Century Gel Mediums: From Historical Recipes to Model Systems. Studies in Conservation, 0, , 1-8.	1.1	1
119	From waste incineration by-products to functional materials: a â€œChimie douceâ€•route to VOCs mineral adsorbents. Journal of Sol-Gel Science and Technology, 0, , 1.	2.4	0