Florent Carn

List of Publications by Year
in descending order

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Version: 2024-02-01

44 papers	1,718 citations	279798 23 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	2544 citing authors

#	Article	IF	Citations
1	Inorganic monoliths hierarchically textured via concentrated direct emulsion and micellar templatesElectronic supplementary information (ESI) available: XRD profiles, nitrogen physisorption data and pore size distribution calculated from density functional theory, for the xSi-HIPE0.035 series. See http://www.rsc.org/suppdata/jm/b4/b400984c/. Journal of Materials Chemistry, 2004, 14, 1370.	6.7	186
2	Unexpected intracellular biodegradation and recrystallization of gold nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 103-113.	7.1	147
3	Foam Drainage in the Presence of Nanoparticleâ^'Surfactant Mixtures. Langmuir, 2009, 25, 7847-7856.	3.5	132
4	Rational Design of Macrocellular Silica Scaffolds Obtained by a Tunable Solâ€“Gel Foaming Process. Advanced Materials, 2004, 16, 140-144.	21.0	101
5	Toward an Understanding of the Microstructure and Interfacial Properties of PIMs/ZIF-8 Mixed Matrix Membranes. ACS Applied Materials & Interfaces, 2016, 8, 27311-27321.	8.0	93
6	Gold-based therapy: From past to present. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22639-22648.	7.1	85
7	Anatase and Rutile TiO2 Macrocellular Foams: Air-Liquid Foaming Sol-Gel Process Towards Controlling Cell Sizes, Morphologies, and Topologies. Advanced Materials, 2005, 17, 62-66.	21.0	75
8	Macroscopic Fibers of Oriented Vanadium Oxide Ribbons and Their Application as Highly Sensitive Alcohol Microsensors. Advanced Materials, 2005, 17, 2970-2974.	21.0	69
9	Ferritin Protein Regulates the Degradation of Iron Oxide Nanoparticles. Small, 2017, 13, 1602030.	10.0	69
10	How does the size of gold nanoparticles depend on citrate to gold ratio in Turkevich synthesis? Final answer to a debated question. Journal of Colloid and Interface Science, 2017, 492, 191-198.	9.4	58
11	Tailor-Made Macroporous Vanadium Oxide Foams. Chemistry of Materials, 2005, 17, 644-649.	6.7	57
12	Multiwalled-carbon-nanotube-based carbon foams. Carbon, 2007, 45, 2317-2320.	10.3	47
13	Structural Properties of Colloidal Complexes between Condensed Tannins and Polysaccharide Hyaluronan. Biomacromolecules, 2012, 13, 751-759.	5.4	43
14	Three-Dimensional Opal-Like Silica Foams. Langmuir, 2006, 22, 5469-5475.	3.5	42
15	Syntheses and characterization of highly mesoporous crystalline TiO2 macrocellular foams. Journal of Materials Chemistry, 2005, 15, 3887.	6.7	38
16	Polyethyleneimine-assisted one-pot synthesis of quasi-fractal plasmonic gold nanocomposites as a photothermal theranostic agent. Nanoscale, 2019, 11, 3344-3359.	5.6	34
17	First example of biopolymerâ€“polyoxometalate complex coacervation in gelatinâ€“decavanadate mixtures. Soft Matter, 2008, 4, 735.	2.7	32
18	Tumor-Selective Immune-Active Mild Hyperthermia Associated with Chemotherapy in Colon Peritoneal Metastasis by Photoactivation of Fluorouracilâ€“Gold Nanoparticle Complexes. ACS Nano, 2021, 15, 3330-3348.	14.6	28

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19	Control over the electrostatic self-assembly of nanoparticle semiflexible biopolyelectrolyte complexes. Soft Matter, 2013, 9, 5004.	2.7	26
20	Pickering emulsions with Î±-cyclodextrin inclusions: Structure and thermal stability. Journal of Colloid and Interface Science, 2016, 482, 48-57.	9.4	26
21	Dehydration, Dissolution, and Melting of Cyclodextrin Crystals. Journal of Physical Chemistry B, 2015, 119, 1433-1442.	2.6	25
22	Supramolecular Assembly of Gelatin and Inorganic Polyanions: Fine-Tuning the Mechanical Properties of Nanocomposites by Varying Their Composition and Microstructure. Chemistry of Materials, 2015, 27, 1452-1464.	6.7	25
23	Assembling Vanadium(V) Oxide and Gelatin into Novel Bionanocomposites with Unexpected Rubber-like Properties. Chemistry of Materials, 2010, 22, 398-408.	6.7	24
24	Physiological Remediation of Cobalt Ferrite Nanoparticles by Ferritin. Scientific Reports, 2017, 7, 40075.	3.3	24
25	Influence of Decavanadate Clusters on the Rheological Properties of Gelatin. Journal of Physical Chemistry B, 2008, 112, 12596-12605.	2.6	21
26	Shaping zirconium phosphate Î±-Zr(HPO4)2Â·H2O: from exfoliation to first Î±-ZrP 3D open-cell macrocellular foams. New Journal of Chemistry, 2005, 29, 1346.	2.8	20
27	Interfacing a heteropolytungstate complex and gelatin through a coacervation process: design of bionanocomposite films as novel electrocatalysts. Journal of Materials Chemistry A, 2014, 2, 9208-9220.	10.3	20
28	Biopolymer folding driven nanoparticle reorganization in bio-nanocomposites. Soft Matter, 2012, 8, 2930.	2.7	19
29	Foam drainage study during plateau border mineralisation. Soft Matter, 2012, 8, 61-65.	2.7	16
30	Lithium-ion battery electrode prepared by confining carbon nanotubes/V2O5 nanoribbons suspension in model airâ€“liquid foams. Solid State Sciences, 2013, 17, 134-139.	3.2	16
31	Soft matter, solâ€“gel process and external magnetic field to design macrocellular silica scaffolds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 263, 341-346.	4.7	15
32	Role of the ratio of biopolyelectrolyte persistence length to nanoparticle size in the structural tuning of electrostatic complexes. Physical Review E, 2016, 94, 032504.	2.1	15
33	Nanorods of Well-Defined Length and Monodisperse Cross-Section Obtained from Electrostatic Complexation of Nanoparticles with a Semiflexible Biopolymer. ACS Macro Letters, 2012, 1, 857-861.	4.8	13
34	Self-Assembly of Nanoparticles from Evaporating Sessile Droplets: Fresh Look into the Role of Particle/Substrate Interaction. Langmuir, 2020, 36, 11411-11421.	3.5	13
35	Shape-Tailored Colloidal Molecules Obtained by Self-Assembly of Model Gold Nanoparticles with Flexible Polyelectrolyte. Langmuir, 2015, 31, 5731-5737.	3.5	10
36	Rational Design of Fractal Gold Nanosphere Assemblies with Optimized Photothermal Conversion Using a Quantitative Structure Property Relationship (QSPR) Approach. Journal of Physical Chemistry C, 2020, 124, 8938-8948.	3.1	10

#	Article	IF	Citations
37	A robust eco-compatible microporous iron coordination polymer for CO₂ capture. Journal of Materials Chemistry A, 2022, 10, 8535-8545.	10.3	9
38	Disturbance of adhesomes by gold nanoparticles reveals a size- and cell type-bias. Biomaterials Science, 2019, 7, 389-408.	5.4	8
39	Morphological Control of Linear Particle Deposits from the Drying of Inkjet-Printed Rivulets. Journal of Physical Chemistry Letters, 2020, 11, 4559-4563.	4.6	8
40	Integrative chemistry portfolio toward designing and tuning vanadium oxide macroscopic fibers sensing and mechanical properties. Comptes Rendus Chimie, 2010, 13, 154-166.	0.5	7
41	Self-Assembly of Gold Nanoparticles with Oppositely Charged, Long, Linear Chains of Periodic Copolymers. Journal of Physical Chemistry B, 2020, 124, 900-908.	2.6	7
42	Self-Induced Crystallization in Charged Gold Nanoparticle-Semiflexible Biopolyelectrolyte Complexes. Langmuir, 2020, 36, 7925-7932.	3.5	5
43	Mechanical strength enhancement by grain size reduction in a soft colloidal polycrystal. Soft Matter, 2021, , .	2.7	0
44	Flash Colloidal Gold Nanoparticle Assembly in a Milli Flow System: Implications for Thermoplasmonic and for the Amplification of Optical Signals. ACS Applied Nano Materials, 2022, 5, 6964-6971.	5.0	0