

ClÃ©mence Sicard

List of Publications by Year in descending order

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35
papers

2,171
citations

304701

22
h-index

361001

35
g-index

35
all docs

35
docs citations

35
times ranked

3361
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-organic frameworks: a novel host platform for enzymatic catalysis and detection. <i>Materials Horizons</i> , 2017, 4, 55-63.	12.2	281
2	Multiplexed paper test strip for quantitative bacterial detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1567-1576.	3.7	194
3	Algae-mediated biosynthesis of inorganic nanomaterials as a promising route in nanobiotechnology – a review. <i>Green Chemistry</i> , 2017, 19, 552-587.	9.0	187
4	Tools for water quality monitoring and mapping using paper-based sensors and cell phones. <i>Water Research</i> , 2015, 70, 360-369.	11.3	176
5	Enzyme Encapsulation in Mesoporous Metal-Organic Frameworks for Selective Biodegradation of Harmful Dye Molecules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16141-16146.	13.8	128
6	Creating fast flow channels in paper fluidic devices to control timing of sequential reactions. <i>Lab on A Chip</i> , 2012, 12, 5079.	6.0	118
7	Design of metal organic framework-enzyme based bioelectrodes as a novel and highly sensitive biosensing platform. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8983-8992.	5.8	118
8	Micro-algal biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 581-597.	3.7	95
9	Paper-based microfluidics with an erodible polymeric bridge giving controlled release and timed flow shutoff. <i>Lab on A Chip</i> , 2014, 14, 229-236.	6.0	89
10	Nano-gold biosynthesis by silica-encapsulated micro-algae: a “living” bio-hybrid material. <i>Journal of Materials Chemistry</i> , 2010, 20, 9342.	6.7	85
11	Revisiting the Aluminum Trimesate-Based MOF (MIL-96): From Structure Determination to the Processing of Mixed Matrix Membranes for CO ₂ Capture. <i>Chemistry of Materials</i> , 2017, 29, 10326-10338.	6.7	78
12	Multivariable Sieving and Hierarchical Recognition for Organic Toxics in Nonhomogeneous Channel of MOFs. <i>CheM</i> , 2019, 5, 1337-1350.	11.7	59
13	Printing silicone-based hydrophobic barriers on paper for microfluidic assays using low-cost ink jet printers. <i>Analyst</i> , 2014, 139, 6361-6365.	3.5	54
14	CeO ₂ Nanoparticles for the Protection of Photosynthetic Organisms Immobilized in Silica Gels. <i>Chemistry of Materials</i> , 2011, 23, 1374-1378.	6.7	53
15	Influence of Filler Pore Structure and Polymer on the Performance of MOF-Based Mixed Matrix Membranes for CO ₂ Capture. <i>Chemistry - A European Journal</i> , 2018, 24, 7949-7956.	3.3	44
16	Poly(oligoethylene glycol methacrylate) Dip-Coating: Turning Cellulose Paper into a Protein-Repellent Platform for Biosensors. <i>Journal of the American Chemical Society</i> , 2014, 136, 12852-12855.	13.7	42
17	Evaporation-Directed Crack Patterning of Metal-Organic Framework Colloidal Films and Their Application as Photonic Sensors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14011-14015.	13.8	41
18	Metal-Organic Framework Based 1D Nanostructures and Their Superstructures: Synthesis, Microstructure, and Properties. <i>Chemistry of Materials</i> , 2021, 33, 5825-5849.	6.7	31

#	ARTICLE	IF	CITATIONS
19	Formation of a Single-Crystal Aluminum-Based MOF Nanowire with Graphene Oxide Nanoscrolls as Structure-Directing Agents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10353-10358.	13.8	30
20	Enzyme Encapsulation in Mesoporous Metal-Organic Frameworks for Selective Biodegradation of Harmful Dye Molecules. <i>Angewandte Chemie</i> , 2018, 130, 16373-16378.	2.0	28
21	Design of stable mixed-metal MIL-101(Cr/Fe) materials with enhanced catalytic activity for the Prins reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17002-17011.	10.3	28
22	Bioactive paper: Biomolecule immobilization methods and applications in environmental monitoring. <i>MRS Bulletin</i> , 2013, 38, 331-334.	3.5	27
23	Encapsulation of Microperoxidase-8 in MIL-101(Cr)-X Nanoparticles: Influence of Metal-Organic Framework Functionalization on Enzymatic Immobilization and Catalytic Activity. <i>ACS Applied Nano Materials</i> , 2020, 3, 3233-3243.	5.0	26
24	A rapid and sensitive fluorimetric β -galactosidase assay for coliform detection using chlorophenol red- β -D-galactopyranoside. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5395-5403.	3.7	24
25	Bacteria encapsulation in a magnetic sol-gel matrix. <i>Journal of Materials Chemistry</i> , 2009, 19, 1241.	6.7	21
26	Design and properties of biopolymer-silica hybrid materials: The example of pectin-based biodegradable hydrogels. <i>Pure and Applied Chemistry</i> , 2012, 84, 2521-2529.	1.9	21
27	Stabilization of Neodymium Oxide Nanoparticles via Soft Adsorption of Charged Polymers. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3357-3365.	8.0	20
28	Silica@proton-alginate microreactors: a versatile platform for cell encapsulation. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3189-3194.	5.8	17
29	Solid-Phase Biological Assays for Drug Discovery. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 337-359.	5.4	16
30	One-pot synthesis of a new generation of hybrid bisphosphonate polyoxometalate gold nanoparticles as antibiofilm agents. <i>Nanoscale Advances</i> , 2019, 1, 3400-3405.	4.6	14
31	Enhancing microperoxidase activity and selectivity: immobilization in metal-organic frameworks. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 718-728.	0.8	9
32	The physics and chemistry of silica-in-silicates nanocomposite hydrogels and their phycocompatibility. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2931-2940.	5.8	7
33	Ultrathin hydrophobic films based on the metal organic framework UiO-66-COOH(Zr). <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 654-665.	2.8	7
34	Design of ZnO nanostructured films: Characterization and ecotoxicological studies. <i>Thin Solid Films</i> , 2011, 519, 3340-3345.	1.8	2
35	Formation of a Single-Crystal Aluminum-Based MOF Nanowire with Graphene Oxide Nanoscrolls as Structure-Directing Agents. <i>Angewandte Chemie</i> , 2020, 132, 10439-10444.	2.0	1