

Karine Mougin

List of Publications by Year in descending order

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59
papers

1,019
citations

471371

17
h-index

454834

30
g-index

59
all docs

59
docs citations

59
times ranked

1295
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorptive removal of cationic and anionic dyes from aqueous solution by utilizing almond shell as bioadsorbent. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2017, 2, 1.	0.6	91
2	Synthesis of novel biocomposite powder for simultaneous removal of hazardous ciprofloxacin and methylene blue: Central composite design, kinetic and isotherm studies using Brouers-Sotolongo family models. <i>Journal of Hazardous Materials</i> , 2020, 387, 121675.	6.5	77
3	Construction of a Tethered Poly(ethylene glycol) Surface Gradient For Studies of Cell Adhesion Kinetics. <i>Langmuir</i> , 2005, 21, 4809-4812.	1.6	63
4	Manipulation of Gold Nanoparticles: Influence of Surface Chemistry, Temperature, and Environment (Vacuum versus Ambient Atmosphere). <i>Langmuir</i> , 2008, 24, 1577-1581.	1.6	62
5	Improving the mechanical properties of short pineapple leaf fiber reinforced natural rubber by blending with acrylonitrile butadiene rubber. <i>Polymer Testing</i> , 2017, 57, 94-100.	2.3	50
6	Manipulation of gold colloidal nanoparticles with atomic force microscopy in dynamic mode: influence of particle-substrate chemistry and morphology, and of operating conditions. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 85-98.	1.5	47
7	Shape and size transformation of gold nanorods (GNRs) via oxidation process: A reverse growth mechanism. <i>Applied Surface Science</i> , 2011, 257, 4175-4179.	3.1	44
8	Comparative study of pineapple leaf microfiber and aramid fiber reinforced natural rubbers using dynamic mechanical analysis. <i>Polymer Testing</i> , 2020, 82, 106289.	2.3	38
9	Direct Laser Writing of Crystallized TiO ₂ and TiO ₂ /Carbon Microstructures with Tunable Conductive Properties. <i>Advanced Materials</i> , 2018, 30, e1805093.	11.1	37
10	Complex Pattern Formation in Drying Dispersions. <i>Langmuir</i> , 2002, 18, 9566-9569.	1.6	34
11	The analytical relations between particles and probe trajectories in atomic force microscope nanomanipulation. <i>Nanotechnology</i> , 2009, 20, 115706.	1.3	33
12	Controlling the two-dimensional adhesion and organization of colloidal gold nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 193, 231-237.	2.3	32
13	Construction of Cell-Resistant Surfaces by Immobilization of Poly(ethylene glycol) on Gold. <i>Langmuir</i> , 2004, 20, 4302-4305.	1.6	32
14	Cetyltrimethylammonium bromide-treated <i>Phragmites australis</i> powder as novel polymeric adsorbent for hazardous Eriochrome Black T removal from aqueous solutions. <i>Polymer Bulletin</i> , 2019, 76, 5077-5102.	1.7	29
15	Nanobubble and nanodroplet template growth of particle nanorings versus nanoholes in drying nanofluids and polymer films. <i>Nanoscale</i> , 2011, 3, 1211.	2.8	27
16	Controlled manipulation of rigid nanorods by atomic force microscopy. <i>Nanotechnology</i> , 2010, 21, 215702.	1.3	20
17	Trajectory fluctuations accompanying the manipulation of spherical nanoparticles. <i>Physical Review B</i> , 2009, 80, .	1.1	18
18	On-Demand Editing of Surface Properties of Microstructures Made by 3D Direct Laser Writing via Photo-Mediated RAFT Polymerization. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	18

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19	New optimization approach for successive cationic and anionic dyes uptake using reed-based beads. <i>Journal of Cleaner Production</i> , 2021, 307, 127218.	4.6	17
20	Nanoheterogeneous Surfaces in the Control of Interface Phenomena. <i>Langmuir</i> , 2000, 16, 7773-7776.	1.6	16
21	Spontaneous Growth of Two-Dimensional Complex Patterns of Nanoparticles at Model Molecular Surfaces. <i>Langmuir</i> , 2001, 17, 659-663.	1.6	15
22	Wetting of thin liquid films at nanoscale heterogeneous surfaces. <i>Europhysics Letters</i> , 2003, 61, 660-666.	0.7	15
23	Effect of Non-Rubber Components on Properties of Sulphur Crosslinked Natural Rubbers. <i>Advanced Materials Research</i> , 0, 844, 345-348.	0.3	15
24	Analysis of static friction and elastic forces in a nanowire bent on a flat surface: A comparative study. <i>Tribology International</i> , 2014, 72, 31-34.	3.0	15
25	Sensitive Detection of SARS-CoV-2 Using a Novel Plasmonic Fiber Optic Biosensor Design. <i>Plasmonics</i> , 2022, 17, 1489-1500.	1.8	15
26	Tuning adhesion forces between functionalized gold colloidal nanoparticles and silicon AFM tips: role of ligands and capillary forces. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 660-670.	1.5	14
27	Development of novel and ecological keratin/cellulose-based composites for absorption of oils and organic solvents. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46655-46668.	2.7	14
28	Nanoscale Friction and Wetting on a Representative Ensemble of Model Surfaces with Different Polarities. <i>Tribology Letters</i> , 2004, 17, 11-17.	1.2	12
29	Channeling motion of gold nanospheres on a rippled glassed surface. <i>Nanotechnology</i> , 2014, 25, 485302.	1.3	11
30	Adhesion detachment and movement of gold nanoclusters induced by dynamic atomic force microscopy. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 354011.	0.7	10
31	Morphological stability of microencapsulated vitamin formulations by AFM imaging. <i>Food Structure</i> , 2016, 9, 1-12.	2.3	9
32	Lateral Self-Organization and Ordering at Nanoheterogeneous Surfaces. <i>Langmuir</i> , 2000, 16, 9121-9124.	1.6	8
33	Rapid evolution of biochemical and physicochemical indicators of ammonia-stabilized Hevea latex during the first twelve days of storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 487-498.	2.3	8
34	Realising the Potential of Pineapple Leaf Fiber as Green and High-performance Reinforcement for Natural Rubber Composite with Liquid Functionalized Rubber. <i>Fibers and Polymers</i> , 2021, 22, 2543-2551.	1.1	8
35	From highly ramified, large scale dendrite patterns of drying alginate/Au NPs solutions to capillary fabrication of lab-scale composite hydrogel microfibers. <i>Soft Matter</i> , 2012, 8, 1155-1162.	1.2	7
36	Spontaneous growth of self-relief wrinkles in freely floating lipid-based nanomembranes, formed on a reactive bath of polyoxometalate aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 377-383.	5.0	6

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37	Complex Aggregation Patterns in Drying Nanocolloidal Suspensions: Size Matters When It Comes to the Thermomechanical Stability of Nanoparticle-Based Structures. <i>Langmuir</i> , 2010, 26, 16928-16933.	1.6	6
38	Controlling shape and spatial organization of silver crystals by site-selective chemical growth method for improving surface enhanced Raman scattering activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 484, 508-517.	2.3	6
39	Enhanced Malachite Green uptake using chemically-modified reed-based powder: equilibrium, kinetics, mechanism, and reusability. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 7255-7273.	1.8	6
40	Tuning nanomechanical properties of microstructures made by 3D direct laser writing. <i>Additive Manufacturing</i> , 2021, 47, 102232.	1.7	5
41	Selective Two-Dimensional Adsorption of Nanogold Particles at Heterogeneous Molecular Surfaces. <i>Langmuir</i> , 2001, 17, 1432-1436.	1.6	4
42	Shear-Induced Detachment of Micrometer-Scale Soft Droplets Embedded onto a Rigid Substrate. Relation to Biological Systems. <i>Langmuir</i> , 2001, 17, 5952-5957.	1.6	4
43	Modeling of nanoparticle manipulation by AFM: Rolling vs. sliding regimes. <i>Europhysics Letters</i> , 2013, 101, 66002.	0.7	4
44	Influence of Non-Rubber Components on NR Surface Modification by Chlorination. <i>Advanced Materials Research</i> , 0, 844, 369-372.	0.3	4
45	The effect of heat treatment on the morphology and mobility of Au nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 61-67.	1.5	4
46	Control of Spatial Organization of Gold Nanoparticles Using Cylindrical Nanopores of Block Copolymers Films. <i>Physics Procedia</i> , 2014, 55, 396-402.	1.2	3
47	Effect of Preparation Conditions on Heavy Metal Adsorption Characteristics of Activated Carbon Prepared from Non-Fibrous Material of Pineapple Leaves. <i>Key Engineering Materials</i> , 0, 824, 114-120.	0.4	2
48	Tunisian Almond Shell for Efficient Removal of Eriochrome Black T and Malachite Green Dyes from Aqueous Solution. <i>Advances in Science, Technology and Innovation</i> , 2018, , 1383-1385.	0.2	1
49	Adsorptive Removal of Cationic and Anionic Dyes from Aqueous Solution by Utilizing Reed Treated with Sodium Dodecyl Sulfate as a New Bioadsorbent. <i>Advances in Science, Technology and Innovation</i> , 2018, , 189-193.	0.2	1
50	Enhanced Removal of Eriochrome Black T from Water Using Phragmites Australis Functionalized with Cetyltrimethylammonium Bromide (CTAB). <i>Advances in Science, Technology and Innovation</i> , 2018, , 195-196.	0.2	1
51	Improving the Adhesion between Pineapple Leaf Fiber and Natural Rubber by Using Urea Formaldehyde Resin. <i>Key Engineering Materials</i> , 2019, 824, 107-113.	0.4	1
52	Liquid Ring Formation from Contacting, Nonmiscible Sessile Drops. <i>Langmuir</i> , 2005, 21, 1895-1899.	1.6	0
53	Combined Electrostatic-Covalent Building of Au NPs Multilayers and Their Size-Enhanced Cohesive and SERS Properties. <i>Advances in Physical Chemistry</i> , 2010, 2010, 1-11.	2.0	0
54	Effect of Mastication Time on the Properties of Stearic Acid Coated Pineapple Leaf Fiber Reinforced Natural Rubber. <i>Key Engineering Materials</i> , 0, 824, 100-106.	0.4	0

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55	Malachite Green Removal Ability of a New Low-Temperature Alkali-Treated Almond Shell Adsorbent. Environmental Science and Engineering, 2021, , 97-101.	0.1	0
56	Enhancement of the Compatibility Between Natural Rubber and Pineapple Leaf Microfibers for Better Stress Transfer in Their Composite. Environmental Science and Engineering, 2021, , 441-446.	0.1	0
57	Nanoscale Friction of Self-assembled Monolayers. Nanoscience and Technology, 2015, , 489-514.	1.5	0
58	Optical and electrochemical activity of gold flower-shape crystals. Annales De Chimie: Science Des Matériaux, 2016, 40, 43-50.	0.2	0
59	Surface Color on Demand: Chameleon Effect. Jom, 2022, 74, 847.	0.9	0