Karine Mougin

List of Publications by Year
in descending order

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	Enhanced Malachite Green uptake using chemically-modified reed-based powder: equilibrium, kinetics, mechanism, and reusability. International Journal of Environmental Analytical Chemistry, 2022, 102, 7255-7273.	1.8	6
2	Surface Color on Demand: Chameleon Effect. Jom, 2022, 74, 847.	0.9	0
3	Onâ€Demand Editing of Surface Properties of Microstructures Made by 3D Direct Laser Writing via Photoâ€Mediated RAFT Polymerization. Advanced Functional Materials, 2022, 32, .	7.8	18
4	Sensitive Detection of SARS-CoV-2 Using a Novel Plasmonic Fiber Optic Biosensor Design. Plasmonics, 2022, 17, 1489-1500.	1.8	15
5	Development of novel and ecological keratin/cellulose-based composites for absorption of oils and organic solvents. Environmental Science and Pollution Research, 2021, 28, 46655-46668.	2.7	14
6	Realising the Potential of Pineapple Leaf Fiber as Green and High-performance Reinforcement for Natural Rubber Composite with Liquid Functionalized Rubber. Fibers and Polymers, 2021, 22, 2543-2551.	1.1	8
7	New optimization approach for successive cationic and anionic dyes uptake using reed-based beads. Journal of Cleaner Production, 2021, 307, 127218.	4.6	17
8	Tuning nanomechanical properties of microstructures made by 3D direct laser writing. Additive Manufacturing, 2021, 47, 102232.	1.7	5
9	Malachite Green Removal Ability of a New Low-Temperature Alkali-Treated Almond Shell Adsorbent. Environmental Science and Engineering, 2021, , 97-101.	0.1	0
10	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
11	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. Journal of Hazardous Materials, 2020, 387, 121675.	6.5	77
12	Comparative study of pineapple leaf microfiber and aramid fiber reinforced natural rubbers using dynamic mechanical analysis. Polymer Testing, 2020, 82, 106289.	2.3	38
13	The effect of heat treatment on the morphology and mobility of Au nanoparticles. Beilstein Journal of Nanotechnology, 2020, 11, 61-67.	1.5	4
14	Rapid evolution of biochemical and physicochemical indicators of ammonia-stabilized Hevea latex during the first twelve days of storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 570, 487-498.	2.3	8
15	Improving the Adhesion between Pineapple Leaf Fiber and Natural Rubber by Using Urea Formaldehyde Resin. Key Engineering Materials, 2019, 824, 107-113.	0.4	1
16	Cetyltrimethylammonium bromide-treated Phragmites australis powder as novel polymeric adsorbent for hazardous Eriochrome Black T removal from aqueous solutions. Polymer Bulletin, 2019, 76, 5077-5102.	1.7	29
17	Tunisian Almond Shell for Efficient Removal of Eriochrome Black T and Malachite Green Dyes from Aqueous Solution. Advances in Science, Technology and Innovation, 2018, , 1383-1385.	0.2	1
18	Adsorptive Removal of Cationic and Anionic Dyes from Aqueous Solution by Utilizing Reed Treated with Sodium Dodecyl Sulfate as a New Bioadsorbent. Advances in Science, Technology and Innovation, 2018, , 189-193.	0.2	1

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19	Enhanced Removal of Eriochrome Black T from Water Using Phragmites Australis Functionalized with Cetyltrimethylammonium Bromide (CTAB). Advances in Science, Technology and Innovation, 2018, , 195-196.	0.2	1
20	Direct Laser Writing of Crystallized TiO₂ and TiO₂/Carbon Microstructures with Tunable Conductive Properties. Advanced Materials, 2018, 30, e1805093.	11.1	37
21	Tuning adhesion forces between functionalized gold colloidal nanoparticles and silicon AFM tips: role of ligands and capillary forces. Beilstein Journal of Nanotechnology, 2018, 9, 660-670.	1.5	14
22	Adsorptive removal of cationic and anionic dyes from aqueous solution by utilizing almond shell as bioadsorbent. Euro-Mediterranean Journal for Environmental Integration, 2017, 2, 1.	0.6	91
23	Improving the mechanical properties of short pineapple leaf fiber reinforced natural rubber by blending with acrylonitrile butadiene rubber. Polymer Testing, 2017, 57, 94-100.	2.3	50
24	Morphological stability of microencapsulated vitamin formulations by AFM imaging. Food Structure, 2016, 9, 1-12.	2.3	9
25	Optical and electrochemical activity of gold flower-shape crystals. Annales De Chimie: Science Des Materiaux, 2016, 40, 43-50.	0.2	0
26	Controlling shape and spatial organization of silver crystals by site-selective chemical growth method for improving surface enhanced Raman scattering activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 508-517.	2.3	6
27	Nanoscale Friction of Self-assembled Monolayers. Nanoscience and Technology, 2015, , 489-514.	1.5	0
28	Channeling motion of gold nanospheres on a rippled glassed surface. Nanotechnology, 2014, 25, 485302.	1.3	11
29	Control of Spatial Organization of Gold Nanoparticles Using Cylindrical Nanopores of Block Copolymers Films. Physics Procedia, 2014, 55, 396-402.	1.2	3
30	Analysis of static friction and elastic forces in a nanowire bent on a flat surface: A comparative study. Tribology International, 2014, 72, 31-34.	3.0	15
31	Modeling of nanoparticle manipulation by AFM: Rolling vs. sliding regimes. Europhysics Letters, 2013, 101, 66002.	0.7	4
32	From highly ramified, large scale dendrite patterns of drying â€œalginate/Au NPsâ€•solutions to capillary fabrication of lab-scale composite hydrogel microfibers. Soft Matter, 2012, 8, 1155-1162.	1.2	7
33	Manipulation of gold colloidal nanoparticles with atomic force microscopy in dynamic mode: influence of particleâ€“substrate chemistry and morphology, and of operating conditions. Beilstein Journal of Nanotechnology, 2011, 2, 85-98.	1.5	47
34	Nanobubble and nanodroplet template growth of particle nanorings versus nanoholes in drying nanofluids and polymer films. Nanoscale, 2011, 3, 1211.	2.8	27
35	Shape and size transformation of gold nanorods (GNRs) via oxidation process: A reverse growth mechanism. Applied Surface Science, 2011, 257, 4175-4179.	3.1	44
36	Spontaneous growth of self-relief wrinkles in freely floating lipid-based nanomembranes, formed on a reactive bath of polyoxometalate aqueous solution. Journal of Colloid and Interface Science, 2010, 345, 377-383.	5.0	6

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37	Combined Electrostatic-Covalent Building of Au NPs Multilayers and Their Size-Enhanced Cohesive and SERS Properties. Advances in Physical Chemistry, 2010, 2010, 1-11.	2.0	0
38	Controlled manipulation of rigid nanorods by atomic force microscopy. Nanotechnology, 2010, 21, 215702.	1.3	20
39	Complex Aggregation Patterns in Drying Nanocolloidal Suspensions: Size Matters When It Comes to the Thermomechanical Stability of Nanoparticle-Based Structures. Langmuir, 2010, 26, 16928-16933.	1.6	6
40	Trajectory fluctuations accompanying the manipulation of spherical nanoparticles. Physical Review B, 2009, 80, .	1.1	18
41	The analytical relations between particles and probe trajectories in atomic force microscope nanomanipulation. Nanotechnology, 2009, 20, 115706.	1.3	33
42	Manipulation of Gold Nanoparticles:â€‰ Influence of Surface Chemistry, Temperature, and Environment (Vacuum versus Ambient Atmosphere). Langmuir, 2008, 24, 1577-1581.	1.6	62
43	Adhesion detachment and movement of gold nanoclusters induced by dynamic atomic force microscopy. Journal of Physics Condensed Matter, 2008, 20, 354011.	0.7	10
44	Construction of a Tethered Poly(ethylene glycol) Surface Gradient For Studies of Cell Adhesion Kinetics. Langmuir, 2005, 21, 4809-4812.	1.6	63
45	Liquid Ring Formation from Contacting, Nonmiscible Sessile Drops. Langmuir, 2005, 21, 1895-1899.	1.6	0
46	Nanoscale Friction and Wetting on a Representative Ensemble of Model Surfaces with Different Polarities. Tribology Letters, 2004, 17, 11-17.	1.2	12
47	Construction of Cell-Resistant Surfaces by Immobilization of Poly(ethylene glycol) on Gold. Langmuir, 2004, 20, 4302-4305.	1.6	32
48	Wetting of thin liquid films at nanoscale heterogeneous surfaces. Europhysics Letters, 2003, 61, 660-666.	0.7	15
49	Complex Pattern Formation in Drying Dispersions. Langmuir, 2002, 18, 9566-9569.	1.6	34
50	Selective Two-Dimensional Adsorption of Nanogold Particles at Heterogeneous Molecular Surfaces. Langmuir, 2001, 17, 1432-1436.	1.6	4
51	Spontaneous Growth of Two-Dimensional Complex Patterns of Nanoparticles at Model Molecular Surfaces. Langmuir, 2001, 17, 659-663.	1.6	15
52	Shear-Induced Detachment of Micrometer-Scale Soft Droplets Embedded onto a Rigid Substrate. Relation to Biological Systems. Langmuir, 2001, 17, 5952-5957.	1.6	4
53	Controlling the two-dimensional adhesion and organization of colloidal gold nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 193, 231-237.	2.3	32
54	Nanoheterogeneous Surfaces in the Control of Interface Phenomena. Langmuir, 2000, 16, 7773-7776.	1.6	16

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55	Lateral Self-Organization and Ordering at Nanoheterogeneous Surfaces. Langmuir, 2000, 16, 9121-9124.	1.6	8
56	Influence of Non-Rubber Components on NR Surface Modification by Chlorination. Advanced Materials Research, 0, 844, 369-372.	0.3	4
57	Effect of Non-Rubber Components on Properties of Sulphur Crosslinked Natural Rubbers. Advanced Materials Research, 0, 844, 345-348.	0.3	15
58	Effect of Mastication Time on the Properties of Stearic Acid Coated Pineapple Leaf Fiber Reinforced Natural Rubber. Key Engineering Materials, 0, 824, 100-106.	0.4	0
59	Effect of Preparation Conditions on Heavy Metal Adsorption Characteristics of Activated Carbon Prepared from Non-Fibrous Material of Pineapple Leaves. Key Engineering Materials, 0, 824, 114-120.	0.4	2