

Souhir Boujday

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

2,240
citations

29
h-index

44
g-index

77
ext. papers

2,579
ext. citations

5.4
avg, IF

5.04
L-index

#	Paper	IF	Citations
75	Silane layers on silicon surfaces: mechanism of interaction, stability, and influence on protein adsorption. <i>Langmuir</i> , 2012 , 28, 656-65	4	155
74	Recent advances in aptasensors based on graphene and graphene-like nanomaterials. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 373-85	11.8	148
73	Silver-Based Plasmonic Nanoparticles for and Their Use in Biosensing. <i>Biosensors</i> , 2019 , 9,	5.9	135
72	Photocatalytic and electronic properties of TiO ₂ powders elaborated by sol-gel route and supercritical drying. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 83, 421-433	6.4	115
71	Smartphone spectrometer for colorimetric biosensing. <i>Analyst, The</i> , 2016 , 141, 3233-8	5	85
70	Optimizing the immobilization of gold nanoparticles on functionalized silicon surfaces: amine- vs thiol-terminated silane. <i>Gold Bulletin</i> , 2013 , 46, 335-341	1.6	77
69	In-depth investigation of protein adsorption on gold surfaces: correlating the structure and density to the efficiency of the sensing layer. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6708-15	3.4	64
68	Antibody-Gold Nanoparticle Bioconjugates for Biosensors: Synthesis, Characterization and Selected Applications. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112370	11.8	61
67	Tunable laser interference lithography preparation of plasmonic nanoparticle arrays tailored for SERS. <i>Nanoscale</i> , 2018 , 10, 10268-10276	7.7	55
66	Bifunctional Polyoxometalates for Planar Gold Surface Nanostructuring and Protein Immobilization. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13217-13224	3.8	52
65	Photocatalytic activity of sol-gel derived titania converted into nanocrystalline powders by supercritical drying. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005 , 172, 19-26	4.7	52
64	Piezoelectric immunosensor for direct and rapid detection of staphylococcal enterotoxin A (SEA) at the ng level. <i>Biosensors and Bioelectronics</i> , 2011 , 29, 140-4	11.8	50
63	Catalytic activity and thermostability of enzymes immobilized on silanized surface: influence of the crosslinking agent. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 336-43	3.8	44
62	Optimized immobilization of gold nanoparticles on planar surfaces through alkyldithiols and their use to build 3D biosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 81, 304-12	6	44
61	Core-Shell Gold/Silver Nanoparticles for Localized Surface Plasmon Resonance-Based Naked-Eye Toxin Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46462-46471	9.5	40
60	Elaboration of a reusable immunosensor for the detection of staphylococcal enterotoxin A (SEA) in milk with a quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 148-156	8.5	39
59	Detection of pathogenic Staphylococcus aureus bacteria by gold based immunosensors. <i>Mikrochimica Acta</i> , 2008 , 163, 203-209	5.8	39

58	Rapid analysis of diclofenac in freshwater and wastewater by a monoclonal antibody-based highly sensitive ELISA. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 8873-82	4.4	37
57	Functionalisation of gold surfaces with thiolate SAMs: Topography/bioactivity relationship via combined FT-RAIRS, AFM and QCM investigation. <i>Surface Science</i> , 2007 , 601, 3850-3855	1.8	37
56	Evidence for Interfacial Molecular Recognition in Transition Metal Complexes Adsorption on Amorphous Silica Surfaces. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 651-654	3.4	34
55	Gold nanoparticle-based localized surface plasmon immunosensor for staphylococcal enterotoxin A (SEA) detection. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 6227-6234	4.4	33
54	UV absorption properties of ceria-modified compositions within the fluorite-type solid solution CeO ₂ 1-xWO ₃ . <i>Journal of Solid State Chemistry</i> , 2006 , 179, 3184-3190	3.3	33
53	Revealing the Interplay between Adsorbed Molecular Layers and Gold Nanoparticles by Linear and Nonlinear Optical Properties. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17146-17155	3.8	31
52	Enzyme immobilization on silane-modified surface through short linkers: fate of interfacial phases and impact on catalytic activity. <i>Langmuir</i> , 2014 , 30, 4066-77	4	31
51	Surface IR immunosensors for label-free detection of benzo[a]pyrene. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1750-4	11.8	31
50	Surface IR applied to rapid and direct immunosensing of environmental pollutants. <i>Talanta</i> , 2009 , 78, 165-70	6.2	30
49	Tuning model drug release and soft-tissue bioadhesion of polyester films by plasma post-treatment. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5749-58	9.5	29
48	Probing the Orientation of β -Lactoglobulin on Gold Surfaces Modified by Alkyl Thiol Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11569-11577	3.8	29
47	Amorphous silica as a versatile supermolecular ligand for Ni(II) amine complexes: toward interfacial molecular recognition. <i>ChemPhysChem</i> , 2004 , 5, 1003-13	3.2	29
46	BSA adsorption on aliphatic and aromatic acid SAMs: investigating the effect of residual surface charge and sublayer nature. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 109, 136-42	6	28
45	Discrimination of infrared fingerprints of bulk and surface POH and OH of hydroxyapatites. <i>Catalysis Today</i> , 2014 , 226, 81-88	5.3	27
44	Effect of SAM chain length and binding functions on protein adsorption: β -Lactoglobulin and apo-transferrin on gold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 116, 489-96	6	27
43	Polyoxomolybdate-stabilized Ru(0) nanoparticles deposited on mesoporous silica as catalysts for aromatic hydrogenation. <i>ChemPhysChem</i> , 2007 , 8, 2636-42	3.2	27
42	Gold Nanoparticles Assembly on Silicon and Gold Surfaces: Mechanism, Stability, and Efficiency in Diclofenac Biosensing. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29302-29311	3.8	27
41	Real-time colorimetric hydration sensor for sport activities. <i>Materials and Design</i> , 2016 , 90, 1181-1185	8.1	26

40	Innovative surface characterization techniques applied to immunosensor elaboration and test: comparing the efficiency of Fourier transform-surface plasmon resonance, quartz crystal microbalance with dissipation measurements, and polarization modulation-reflection absorption infrared spectroscopy. <i>Analytical Biochemistry</i> , 2009 , 387, 194-201	3.1	26
39	Enhanced Vibrational Spectroscopies as Tools for Small Molecule Biosensing. <i>Sensors</i> , 2015 , 15, 21239-64.8	3.8	24
38	Time-of-Flight Secondary Ion Mass Spectrometry Investigation of the Orientation of Adsorbed Antibodies on SAMs Correlated to Biorecognition Tests. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2085-2092	3.8	23
37	An experimental and theoretical approach to investigate the effect of chain length on aminothiols adsorption and assembly on gold. <i>Chemistry - A European Journal</i> , 2015 , 21, 14555-61	4.8	22
36	Evolution of Transition Metal Speciation in the Preparation of Supported Catalysts: Halogenoplatinate(IV) on Silica. <i>Catalysis Letters</i> , 2003 , 88, 23-30	2.8	22
35	Semiconductor quantum dots reveal dipolar coupling from exciton to ligand vibration. <i>Communications Chemistry</i> , 2018 , 1,	6.3	22
34	Direct quantification of surface coverage of antibody in IgG-Gold nanoparticles conjugates. <i>Talanta</i> , 2019 , 204, 875-881	6.2	21
33	Naked Eye Immunosensing of Food Biotoxins Using Gold Nanoparticle-Antibody Bioconjugates. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4150-4158	5.6	21
32	Gold colloid-nanostructured surfaces for enhanced piezoelectric immunosensing of staphylococcal enterotoxin A. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1604-1613	8.5	21
31	Gold Nanorods for LSPR Biosensing: Synthesis, Coating by Silica, and Bioanalytical Applications. <i>Biosensors</i> , 2020 , 10,	5.9	19
30	Biosensors elaborated on gold nanoparticles, a PM-IRRAS characterisation of the IgG binding efficiency. <i>Talanta</i> , 2011 , 85, 35-42	6.2	17
29	Bioconjugated gold nanorods to enhance the sensitivity of FT-SPR-based biosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 100, 1-8	6	16
28	Layer-by-layer generation of PEG-based regenerable immunosensing surfaces for small-sized analytes. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 334-41	11.8	14
27	nPEG-TiO ₂ nanoparticles: a facile route to elaborate nanostructured surfaces for biological applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2637-42	9.5	14
26	The Prevailing Role of Hotspots in Plasmon-Enhanced Sum-Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7706-7711	6.4	14
25	Investigation of an allergen adsorption on amine- and acid-terminated thiol layers: influence on their affinity to specific antibodies. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10612-9	3.4	13
24	Nanostructured and spiky gold in biomolecule detection: improving binding efficiencies and enhancing optical signals. <i>RSC Advances</i> , 2015 , 5, 16461-16475	3.7	12
23	Polyoxometalate nanostructured gold surfaces for sensitive biosensing of benzo[a]pyrene. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 770-774	8.5	12

22	Spiky gold shells on magnetic particles for DNA biosensors. <i>Talanta</i> , 2018 , 182, 259-266	6.2	10
21	A versatile approach for the immobilization of amines via copper-free click reaction between azido self-assembled monolayer and alkynyl Fischer carbene complex. Application to the detection of staphylococcal enterotoxin A antibody. <i>Journal of Organometallic Chemistry</i> , 2011 , 696, 1102-1107	2.3	10
20	Bridging the Gap Between Solution and Solid-State Chemistry: Molecular Recognition at the Liquid-Solid Interface. <i>Topics in Catalysis</i> , 2003 , 24, 37-42	2.3	9
19	Thermal chemistry of oxide-supported platinum catalysts: A comparative study. <i>Studies in Surface Science and Catalysis</i> , 2000 , 130, 1043-1048	1.8	9
18	Quantification of aldehyde terminated heparin by SEC-MALLS-UV for the surface functionalization of polycaprolactone biomaterials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 132, 253-63	6	8
17	One-pot synthesis of a new generation of hybrid bisphosphonate polyoxometalate gold nanoparticles as antibiofilm agents. <i>Nanoscale Advances</i> , 2019 , 1, 3400-3405	5.1	8
16	IR spectroscopy for biorecognition and molecular sensing 2011 , 167-216		6
15	Spatially Controlled Reduction and Growth of Silver in Hollow Gold Nanoshell Particles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10614-10621	3.8	5
14	Two-Dimensional Layers of Colloidal CdTe Quantum Dots: Assembly, Optical Properties, and Vibroelectronic Coupling. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25873-25883	3.8	5
13	The genesis of a heterogeneous catalyst: in situ observation of a transition metal complex adsorbing onto an oxide surface in solution. <i>Chemical Communications</i> , 2014 , 50, 2409-11	5.8	4
12	Plasmonic Properties of Gold Nanostructures on Gold Film. <i>Plasmonics</i> , 2020 , 15, 1653-1660	2.4	4
11	Fischer carbene mediated covalent grafting of a peptide nucleic acid on gold surfaces and IR optical detection of DNA hybridization with a transition metalcarbonyl label. <i>Applied Surface Science</i> , 2016 , 385, 47-55	6.7	4
10	Gold/Polyoxometalate Core/Shell Nanoparticles for Combined Chemotherapy/Photothermal Cancer Therapy. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2339-2344	5.6	4
9	Strategies for Antimicrobial Peptides Immobilization on Surfaces to Prevent Biofilm Growth on Biomedical Devices.. <i>Antibiotics</i> , 2021 , 11,	4.9	3
8	Functionalisation of Gold Nanoparticles 2017 , 201-227		3
7	A fullerene helical peptide: synthesis, characterization and formation of self-assembled monolayers on gold surfaces. <i>New Journal of Chemistry</i> , 2018 , 42, 19423-19432	3.6	3
6	A new method for elaborating mesoporous SiO ₂ /montmorillonite composite materials. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 75, 436-446	2.3	2
5	Nanostructured and Spiky Gold Shell Growth on Magnetic Particles for SERS Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	2

4	Design and Analytical Performances of a Diclofenac Biosensor for Water Resources Monitoring. <i>ACS Sensors</i> , 2021 , 6, 3485-3493	9.2	2
3	In-situ monitoring of transition metal complex adsorption on oxide surfaces during the first stages of supported metal catalyst preparation. <i>Catalysis Today</i> , 2014 , 235, 245-249	5.3	1
2	Characterization and Catalytic Activity of Mn(salen) Supported on a Silica/Clay-Mineral Composite: Influence of the Complex/Support Interaction on the Catalytic Efficiency. <i>Chemistry Africa</i> , 2019 , 2, 77-87	7.2	1
1	Gold Nanorod Coating with Silica Shells Having Controlled Thickness and Oriented Porosity: Tailoring the Shells for Biosensing. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9842-9854	5.6	1