Rafael Madueno

List of Publications by Year
in descending order

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35 papers	1,066 citations	430442 18 h-index	395343 33 g-index
35 all docs	35 docs citations	35 times ranked	1560 citing authors

#	Article	IF	Citations
1	Functionalizing hydrogen-bonded surface networks with self-assembled monolayers. Nature, 2008, 454, 618-621.	13.7	358
2	Role of the Functionalization of the Gold Nanoparticle Surface on the Formation of Bioconjugates with Human Serum Albumin. Journal of Physical Chemistry C, 2012, 116, 10430-10437.	1.5	74
3	Stabilization of Gold Nanoparticles by 6-Mercaptopurine Monolayers. Effects of the Solvent Properties. Journal of Physical Chemistry B, 2006, 110, 17840-17847.	1.2	56
4	Electrochemical characterization of a 1,8-octanedithiol self-assembled monolayer (ODT-SAM) on a Au(111) single crystal electrode. Electrochimica Acta, 2008, 53, 8026-8033.	2.6	46
5	A voltammetric study of 6-mercaptopurine monolayers on polycrystalline gold electrodes. Journal of Electroanalytical Chemistry, 2001, 506, 92-98.	1.9	45
6	Electrochemistry of Molecule-like Au25Nanoclusters Protected by Hexanethiolate. Journal of Physical Chemistry C, 2009, 113, 8756-8761.	1.5	44
7	Effective replacement of cetyltrimethylammonium bromide (CTAB) by mercaptoalkanoic acids on gold nanorod (AuNR) surfaces in aqueous solutions. Nanoscale, 2020, 12, 658-668.	2.8	39
8	The direct electrochemistry of cytochrome c at a hanging mercury drop electrode modified with 6-mercaptopurine. Journal of Electroanalytical Chemistry, 1998, 451, 89-93.	1.9	30
9	Magnetic Langmuirâ˘Blodgett Films of Ferritin with Different Iron Contents. Langmuir, 2006, 22, 6993-7000.	1.6	29
10	Hemoglobin bioconjugates with surface-protected gold nanoparticles in aqueous media: The stability depends on solution pH and protein properties. Journal of Colloid and Interface Science, 2017, 505, 1165-1171.	5.0	29
11	Characterization of 6-mercaptopurine monolayers on Hg surfaces. Journal of Electroanalytical Chemistry, 1998, 442, 107-112.	1.9	27
12	An Electrochemical Study of the SAMs of 6-Mercaptopurine (6MP) at Hg and Au(111) Electrodes in Alkaline Media. Langmuir, 2002, 18, 3903-3909.	1.6	26
13	Formation of 1,8-Octanedithiol Mono- and Bilayers under Electrochemical Control. Journal of Physical Chemistry C, 2010, 114, 3568-3574.	1.5	25
14	Facile Exchange of Ligands on the 6-Mercaptopurine-Monolayer Protected Gold Clusters Surface. Journal of Physical Chemistry C, 2010, 114, 15955-15962.	1.5	25
15	Influence of the Solution pH in the 6-Mercaptopurine Self-Assembled Monolayer (6MP-SAM) on a Au(111) Single-Crystal Electrode. Langmuir, 2007, 23, 11027-11033.	1.6	22
16	Formation of a 1,8-Octanedithiol Self-Assembled Monolayer on Au(111) Prepared in a Lyotropic Liquid-Crystalline Medium. Langmuir, 2010, 26, 11790-11796.	1.6	22
17	An electrochemical study of 6-thioguanine monolayers on a mercury electrode in acid and neutral solutions. Journal of Electroanalytical Chemistry, 2004, 565, 301-310.	1.9	21
18	Synthesis, Characterization, and Double Layer Capacitance Charging of Nanoclusters Protected by 6-Mercaptopurine. Journal of Physical Chemistry C, 2009, 113, 5186-5192.	1.5	20

#	Article	IF	Citations
19	Influence of the Global Charge of the Protein on the Stability of Lysozymeâ€"AuNP Bioconjugates. Journal of Physical Chemistry C, 2014, 118, 22274-22283.	1.5	15
20	Formation of Mixed Monolayers from 11-Mercaptoundecanoic Acid and Octanethiol on Au(111) Single Crystal Electrode under Electrochemical Control. Journal of Physical Chemistry C, 2013, 117, 24307-24316.	1.5	14
21	Influence of Patterning in the Acidâ€"Base Interfacial Properties of Homogeneously Mixed CH₃- and COOH-Terminated Self-Assembled Monolayers. Journal of Physical Chemistry C, 2018, 122, 2854-2865.	1.5	14
22	Hemoglobin becomes electroactive upon interaction with surface-protected Au nanoparticles. Talanta, 2018, 176, 667-673.	2.9	13
23	The kinetics of the dissolution of 6-mercaptopurine self-assembled monolayers on Au(111) and Hg electrodes. Journal of Electroanalytical Chemistry, 2005, 576, 197-203.	1.9	12
24	Electrochemical and AFM Study of the 2D-Assembly of Colloidal Gold Nanoparticles on Dithiol SAMs Tuned by Ionic Strength. Journal of Physical Chemistry C, 2014, 118, 14617-14628.	1.5	11
25	Characterization of a self-assembled monolayer of O-(2-Mercaptoethyl)-Oâ€²-methyl-hexa(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	10
26	Formation and Dissolution Processes of the 6-Thioguanine (6TG) Self-Assembled Monolayer. A Kinetic Study. Journal of Physical Chemistry B, 2005, 109, 1491-1498.	1.2	7
27	Formation of 2-D Crystalline Intermixed Domains at the Molecular Level in Binary Self-Assembled Monolayers from a Lyotropic Mixture. Journal of Physical Chemistry C, 2016, 120, 8595-8606.	1.5	7
28	3D Gold Nanocrystal Arrays: A Framework for Reversible Lithium Storage. Journal of Physical Chemistry C, 2010, 114, 2360-2364.	1.5	5
29	Study of the self-assembly process of an oligo(ethylene glycol)-thioacetyl substituted theophylline (THEO) on gold substrates. Journal of Electroanalytical Chemistry, 2018, 823, 663-671.	1.9	5
30	Distinct thermoresponsive behaviour of oligo- and poly-ethylene glycol protected gold nanoparticles in concentrated salt solutions. Nanoscale Advances, 2021, 3, 4767-4779.	2.2	5
31	Comment on â€œThe structure and formation of hydrogen-bonded molecular networks on Au(111) surfaces revealed by scanning tunnelling and torsional-tapping atomic force microscopyâ€•by V. V. Korolkov, N. Mullin, S. Allen, C. J. Roberts, J. K. Hobbs and S. J. B. Tendler, Phys. Chem. Chem. Phys., 2012, 14, 15909. Physical Chemistry Chemical Physics, 2013, 15, 14126.	1.3	3
32	Electrochemical evaluation of the grafting density of self-assembled monolayers of polyethylene glycol of different chain lengths formed by the grafting to approach under conditions close to the cloud point. Journal of Electroanalytical Chemistry, 2022, , 116294.	1.9	3
33	Self-assembled monolayers of O-(2-Mercaptoethyl)-Oâ€²-methyl-hexa(ethylene glycol) (EG7-SAM) on gold electrodes. Effects of the nature of solution/electrolyte on formation and electron transfer blocking characteristics. Journal of Electroanalytical Chemistry, 2022, 914, 116303.	1.9	3
34	Characterization of self-assembled Bis[2-(2-bromoisobutyryloxy) undecyl] disulphide (DTBU) on gold surfaces suitable for use in surface-initiated atom transfer radical polymerization (SI-ATRP). Journal of Electroanalytical Chemistry, 2022, 918, 116515.	1.9	1
35	Modification of metal substrates and its application to the study of redox proteins. Progress in Biotechnology, 1998, , 697-702.	0.2	0