Roberto C Salvarezza

List of Publications by Year
in descending order

269 papers	9,650 citations	53939 47 h-index	66518 82 g-index
273 all docs	273 docs citations	273 times ranked	11542 citing authors

#	Article	IF	Citations
1	Self-assembled monolayers of thiols and dithiols on gold: new challenges for a well-known system. Chemical Society Reviews, 2010, 39, 1805.	18.7	1,200
2	The Chemistry of the Sulfurâ€“Gold Interface: In Search of a Unified Model. Accounts of Chemical Research, 2012, 45, 1183-1192.	7.6	459
3	Self-assembled monolayers of alkanethiols on Au(111): surface structures, defects and dynamics. Physical Chemistry Chemical Physics, 2005, 7, 3258.	1.3	299
4	Self-assembled monolayers of thiolates on metals: a review article on sulfur-metal chemistry and surface structures. RSC Advances, 2014, 4, 27730-27754.	1.7	187
5	Surface characterization of sulfur and alkanethiol self-assembled monolayers on Au(111). Journal of Physics Condensed Matter, 2006, 18, R867-R900.	0.7	163
6	Spontaneous adsorption of silver nanoparticles on Ti/TiO2 surfaces. Antibacterial effect on Pseudomonas aeruginosa. Journal of Colloid and Interface Science, 2010, 350, 402-408.	5.0	145
7	Nano/Microscale Order Affects the Early Stages of Biofilm Formation on Metal Surfaces. Langmuir, 2007, 23, 11206-11210.	1.6	123
8	Monitoring the Electrochemistry of Single Molecules by Surface-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2010, 132, 18034-18037.	6.6	121
9	Kinetics of passivation and pitting corrosion of polycrystalline copper in borate buffer solutions containing sodium chloride. Electrochimica Acta, 1985, 30, 1501-1511.	2.6	120
10	Sulfurâ˜Substrate Interactions in Spontaneously Formed Sulfur Adlayers on Au(111). Langmuir, 2001, 17, 4919-4924.	1.6	107
11	Citrate-Capped Silver Nanoparticles Showing Good Bactericidal Effect against Both Planktonic and Sessile Bacteria and a Low Cytotoxicity to Osteoblastic Cells. ACS Applied Materials & Interfaces, 2013, 5, 3149-3159.	4.0	105
12	The Evaluation of Surface Diffusion Coefficients of Gold and Platinum Atoms at Electrochemical Interfaces from Combined STMâ€SEM Imaging and Electrochemical Techniques. Journal of the Electrochemical Society, 1990, 137, 2161-2166.	1.3	99
13	Spontaneously Formed Sulfur Adlayers on Gold in Electrolyte Solutions: Adsorbed Sulfur or Gold Sulfide?. Journal of Physical Chemistry C, 2008, 112, 11394-11402.	1.5	87
14	The surface diffusion of gold atoms on gold electrodes in acid solution and its dependence on the presence of foreign adsorbates. Electrochimica Acta, 1990, 35, 1331-1336.	2.6	78
15	Self-Affine Fractal Vapour-Deposited Gold Surfaces Characterization by Scanning Tunnelling Microscopy. Europhysics Letters, 1992, 20, 727-732.	0.7	75
16	Dynamics of Potential-Dependent Transformations in Sulfur Adlayers on Au(111) Electrodes. Journal of Physical Chemistry B, 2000, 104, 302-307.	1.2	75
17	Kinetics of Particle Coarsening at Gold Electrode/Electrolyte Solution Interfaces Followed by In Situ Scanning Tunneling Microscopy. Journal of the Electrochemical Society, 1996, 143, 466-471.	1.3	73
18	Dynamics of Rough Interfaces in Chemical Vapor Deposition: Experiments and a Model for Silica Films. Physical Review Letters, 2000, 84, 3125-3128.	2.9	72

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19	Self-Assembly of Alkanedithiols on Au(111) from Solution: Effect of Chain Length and Self-Assembly Conditions. Langmuir, 2009, 25, 12945-12953.	1.6	72
20	Enhanced Stability of Thiolate Self-Assembled Monolayers (SAMs) on Nanostructured Gold Substrates. Langmuir, 2009, 25, 5661-5666.	1.6	70
21	Growth Mode Transition Involving a Potential-Dependent Isotropic to Anisotropic Surface Atom Diffusion Change. Gold Electrodeposition on HOPG followed by STM. Langmuir, 1997, 13, 100-110.	1.6	69
22	Strong Correlation between Molecular Configurations and Charge-Transfer Processes Probed at the Single-Molecule Level by Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2013, 135, 2809-2815.	6.6	68
23	Electrodesorption Kinetics and Molecular Interactions in Well-Ordered Thiol Adlayers On Au(111). Journal of Physical Chemistry B, 2000, 104, 11878-11882.	1.2	66
24	Electrodesorption Potentials of Self-Assembled Alkanethiolate Monolayers on Ag(111) and Au(111). An Electrochemical, Scanning Tunneling Microscopy and Density Functional Theory Study. Journal of Physical Chemistry B, 2002, 106, 12267-12273.	1.2	66
25	Understanding the Surface Chemistry of Thiolate-Protected Metallic Nanoparticles. Journal of Physical Chemistry Letters, 2013, 4, 3127-3138.	2.1	66
26	New Insights into the Chemistry of Thiolate-Protected Palladium Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 9830-9837.	1.5	65
27	A comparative study on the passivation and localized corrosion of Î±, Î², and Î± + Î² brass in borate buffer solutions containing sodium chlorideâ€"I. Electrochemical data. Corrosion Science, 1995, 37, 211-229.	3.0	64
28	Two-Site Adsorption Model for the (â^š3 Ã— â^š3)-R30Â° Dodecanethiolate Lattice on Au(111) Surfaces. Journal of Physical Chemistry B, 2006, 110, 5586-5594.	1.2	63
29	A Surface Effect Allows HNO/NO Discrimination by a Cobalt Porphyrin Bound to Gold. Inorganic Chemistry, 2010, 49, 6955-6966.	1.9	63
30	Niâ€"W coatings electrodeposited on carbon steel: Chemical composition, mechanical properties and corrosion resistance. Electrochimica Acta, 2011, 56, 5898-5903.	2.6	63
31	Edward-Wilkinson Behavior of Crystal Surfaces Grown By Sedimentation of SiO2Nanospheres. Physical Review Letters, 1996, 77, 4572-4575.	2.9	62
32	The dynamic behavior of butanethiol and dodecanethiol adsorbates on Au(111) terraces. Journal of Chemical Physics, 1998, 109, 5703-5706.	1.2	62
33	Electrochemical Formation of Palladium Islands on HOPG:Â Kinetics, Morphology, and Growth Mechanisms. Journal of Physical Chemistry B, 2002, 106, 4232-4244.	1.2	62
34	Following transformation in self-assembled alkanethiol monolayers on Au(111) by in situ scanning tunneling microscopy. Journal of Chemical Physics, 2001, 115, 6672-6678.	1.2	58
35	Protective Properties of Dodecanethiol Layers on Copper Surfaces:â€‰ The Effect of Chloride Anions in Aqueous Environments. Langmuir, 2001, 17, 1483-1487.	1.6	57
36	The development of metal overlayers with smooth and rough topographies. Electrochimica Acta, 1989, 34, 1057-1071.	2.6	55

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37	Dynamic Scaling Exponents of Copper Electrodeposits from Scanning Force Microscopy Imaging. Influence of a Thiourea Additive on the Kinetics of Roughening and Brightening. Langmuir, 1998, 14, 2515-2524.	1.6	55
38	Metal electrodeposition on self-assembled monolayers: a versatile tool for pattern transfer on metal thin films. Electrochimica Acta, 2003, 48, 3107-3114.	2.6	54
39	STM-SEM combination study on the electrochemical growth mechanism and structure of gold overlayers. Surface Science, 1989, 215, 171-189.	0.8	53
40	A comparative study on the passivation and localized corrosion of Î±- and Î²-brass in borate buffer solutions containing sodium chlorideâ€"II. X-ray photoelectron and Auger electron spectroscopy data. Corrosion Science, 1995, 37, 231-239.	3.0	53
41	Validity of the Linear Growth Equation for Interface Evolution for Copper Electrodeposition in the Presence of Organic Additives. Physical Review Letters, 1997, 79, 709-712.	2.9	52
42	Electrodesorption Kinetics and Molecular Interactions at Negatively Charged Self-Assembled Thiol Monolayers in Electrolyte Solutions. Langmuir, 2001, 17, 6647-6654.	1.6	51
43	Electrodesorption Potentials of Self-Assembled Alkanethiolate Monolayers on Copper Electrodes. An Experimental and Theoretical Study. Journal of Physical Chemistry B, 2003, 107, 13446-13454.	1.2	51
44	Synthesis and Characterization of Gold@Gold(I)â^'Thiomalate Core@Shell Nanoparticles. ACS Nano, 2010, 4, 3413-3421.	7.3	50
45	The role of Pseudomonas aeruginosa on the localized corrosion of 304 stainless steel. Corrosion Science, 1993, 34, 1531-1540.	3.0	49
46	Dynamics of Pyridine Adsorption on Gold(111) Terraces in Acid Solution from in-Situ Scanning Tunneling Microscopy under Potentiostatic Control. Langmuir, 1997, 13, 6814-6819.	1.6	49
47	Scanning-tunneling-microscopy study on the growth mode of vapor-deposited gold films. Physical Review A, 1992, 45, 7440-7447.	1.0	48
48	A comparative study of the passivation and localized corrosion of Î±-brass and Î²-brass in borate buffer solutions containing sodium chloride: III. The effect of temperature. Corrosion Science, 1998, 40, 177-190.	3.0	48
49	Electrochemical Self-Assembly of Melanin Films on Gold. Langmuir, 2005, 21, 5924-5930.	1.6	48
50	Kinetics of copper passivation and pitting corrosion in Na2SO4 containing dilute NaOH aqueous solution. Electrochimica Acta, 1994, 39, 2619-2628.	2.6	46
51	Self-assembled dithiothreitol on Au surfaces for biological applications: phospholipid bilayer formation. Physical Chemistry Chemical Physics, 2009, 11, 1077-1084.	1.3	46
52	The influence of halide ions at submonolayer levels on the formation of oxide layer and electrodissolution of copper in neutral solutions. Electrochimica Acta, 1988, 33, 1735-1741.	2.6	45
53	Complex Surface Chemistry of 4-Mercaptopyridine Self-Assembled Monolayers on Au(111). Langmuir, 2012, 28, 6839-6847.	1.6	45
54	The electrodissolution and passivation of mild steel in alkaline sulphide solutions. Corrosion Science, 1982, 22, 815-829.	3.0	44

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55	Mechanisms of the Microbial Corrosion of Aluminum Alloys. Corrosion, 1983, 39, 26-32.	0.5	44
56	The mechanism of silver(I) oxide formation on polycrystalline silver in alkaline solution. Determination of nucleation and growth rates. Electrochimica Acta, 1990, 35, 489-496.	2.6	44
57	Dynamic characteristics of adsorbed monolayers of 1-dodecanethiol on gold (111) terraces from in-situ scanning tunneling microscopy imaging. Electrochimica Acta, 1998, 44, 1053-1067.	2.6	44
58	Complex Structural Dynamics at Adsorbed Alkanethiol Layers at Au(111) Single-Crystal Domains. Langmuir, 1998, 14, 7203-7212.	1.6	44
59	Role of Surface Heterogeneity and Molecular Interactions in the Charge-Transfer Process through Self-Assembled Thiolate Monolayers on Au(111). Langmuir, 2004, 20, 5030-5037.	1.6	43
60	Exploring Three-Dimensional Nanosystems with Raman Spectroscopy:Â Methylene Blue Adsorbed on Thiol and Sulfur Monolayers on Gold. Journal of Physical Chemistry B, 2006, 110, 354-360.	1.2	43
61	Electrochemical Deposition onto Self-Assembled Monolayers: New Insights into Micro- and Nanofabrication. Chemistry - A European Journal, 2006, 12, 38-49.	1.7	43
62	Submicron Trenches Reduce the Pseudomonas fluorescens Colonization Rate on Solid Surfaces. ACS Applied Materials & Interfaces, 2009, 1, 136-143.	4.0	43
63	Synergistic Effects in the Inhibition of Copper Corrosion. Corrosion, 1993, 49, 450-456.	0.5	42
64	Direct Nanopatterning of Metal Surfaces Using Self-Assembled Molecular Films. Advanced Materials, 2004, 16, 405-409.	11.1	42
65	Electrochemical Self-Assembly of Alkanethiolate Molecules on Ni(111) and Polycrystalline Ni Surfaces. Journal of Physical Chemistry B, 2005, 109, 23450-23460.	1.2	42
66	Electrochemical and X-ray Photoelectron Spectroscopy Characterization of Alkanethiols Adsorbed on Palladium Surfaces. Journal of Physical Chemistry C, 2009, 113, 6735-6742.	1.5	42
67	Methylene Blue Incorporation into Alkanethiol SAMs on Au(111): Effect of Hydrocarbon Chain Ordering. Langmuir, 2010, 26, 8226-8232.	1.6	41
68	Have flagella a preferred orientation during early stages of biofilm formation?: AFM study using patterned substrates. Colloids and Surfaces B: Biointerfaces, 2011, 82, 536-542.	2.5	41
69	Electrochemical and Scanning Force Microscopy Characterization of Fractal Palladium Surfaces Resulting from the Electroreduction of Palladium Oxide Layers. Langmuir, 1996, 12, 6587-6596.	1.6	39
70	Scanning Tunneling Microscopy Studies of the Electrochemical Reactivity of Thiourea on Au(111) Electrodes. Journal of Physical Chemistry B, 2000, 104, 1395-1398.	1.2	39
71	Optical Nanoparticle Sorting Elucidates Synthesis of Plasmonic Nanotriangles. ACS Nano, 2016, 10, 3614-3621.	7.3	39
72	Highly Stabilized Nanoparticles on Poly-l-Lysine-Coated Oxidized Metals: A Versatile Platform with Enhanced Antimicrobial Activity. ACS Applied Materials & Interfaces, 2018, 10, 23657-23666.	4.0	39

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73	Thiol-capped gold: from planar to irregular surfaces. Journal of Physics Condensed Matter, 2008, 20, 184004.	0.7	38
74	Evidence for the Formation of Different Energetically Similar Atomic Structures inAg(111)â˜'(7Ã—7)â˜'R19.1Â°â˜'CH3S. Physical Review Letters, 2006, 97, 226103.	2.9	37
75	From Single to Multiple Ag-Layer Modification of Au Nanocavity Substrates: A Tunable Probe of the Chemical Surface-Enhanced Raman Scattering Mechanism. ACS Nano, 2011, 5, 5433-5443.	7.3	37
76	The kinetics of pitting corrosion of copper in alkaline solutions containing sodium perchlorate. Electrochimica Acta, 1992, 37, 1437-1443.	2.6	36
77	Synergy between Graphene and Au Nanoparticles (Heterojunction) towards Quenching, Improving Raman Signal, and UV Light Sensing. ACS Applied Materials & Interfaces, 2014, 6, 6384-6391.	4.0	36
78	A Novel Application of Alkanethiol Self-Assembled Monolayers in Nanofabrication:Â Direct Molding and Replication of Patterned Conducting Masters. Langmuir, 2001, 17, 2748-2752.	1.6	35
79	Are 4-Mercaptobenzoic Acid Self Assembled Monolayers on Au(111) a Suitable System to Test Adatom Models?. Journal of Physical Chemistry C, 2012, 116, 25765-25771.	1.5	35
80	The chemistry and structure of nickelâ€“tungsten coatings obtained by pulse galvanostatic electrodeposition. Electrochimica Acta, 2012, 72, 87-93.	2.6	35
81	Self-affine fractal electrodeposited gold surfaces: Characterization by scanning tunneling microscopy. Physical Review E, 1994, 49, 1507-1511.	0.8	34
82	Thiol with an Unusual Adsorptionâ˜'Desorption Behavior: 6-Mercaptopurine on Au(111). Langmuir, 2010, 26, 17068-17074.	1.6	34
83	Alkanethiol Adsorption on Platinum: Chain Length Effects on the Quality of Self-Assembled Monolayers. Journal of Physical Chemistry C, 2011, 115, 17788-17798.	1.5	34
84	Building Complex Twoâ˜' Dimensional Structures:Â Methylene Blue on Self-Assembled Monolayerâ˜'Covered Au(111). Journal of Physical Chemistry B, 2002, 106, 9114-9121.	1.2	33
85	The Complex Thiolâ˜'Palladium Interface: A Theoretical and Experimental Study. Langmuir, 2010, 26, 14655-14662.	1.6	33
86	The Pitting Corrosion of Nickel in Different Electrolyte Solutions Containing Chloride Ions. Journal of the Electrochemical Society, 1985, 132, 754-760.	1.3	32
87	Kinetics and Mechanism of Silver Chloride Electroformation during the Localized Electrodissolution of Silver in Solutions Containing Sodium Chloride. Journal of the Electrochemical Society, 1986, 133, 746-752.	1.3	32
88	The electroreduction kinetics of the hydrous gold oxide layers and growth modes and roughness of the electroreduced gold overlayers. Electrochimica Acta, 1990, 35, 117-125.	2.6	32
89	Thermal Stability of Self-Assembled Monolayers of n-Hexanethiol on Au(111)-(1 Ã— 1) and Au(001)-(1) Tj ETQq1 1 0.784314 rgB	1.5	32
90	The influence of temperature and the role of chromium in the passive layer in relation to pitting corrosion of 316 stainless steel in NaCl solution. Electrochimica Acta, 1986, 31, 1265-1270.	2.6	31

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91	Smooth and rough platinum deposits resulting from the electroreduction of hydrous oxide platinum overlayersâ€"a mechanistic approach. Electrochimica Acta, 1988, 33, 1743-1751.	2.6	31
92	Scale-dependent roughening kinetics in vapor deposited gold. Surface Science, 1996, 345, 17-26.	0.8	30
93	Roughening kinetics of chemical vapor deposited copper films on Si(100). Applied Physics Letters, 1996, 68, 1285-1287.	1.5	30
94	Organization ofPseudomonas fluorescenson Chemically Different Nano/Microstructured Surfaces. ACS Applied Materials & Interfaces, 2010, 2, 2530-2539.	4.0	30
95	Kinetics and mechanism of the silver (I) oxide to silver (II) oxide layer electrooxidation reaction. Electrochimica Acta, 1988, 33, 1753-1759.	2.6	29
96	Thiol-Capped Gold Nanoparticles on Graphite:â€‰ Spontaneous Adsorption and Electrochemically Induced Release. Journal of Physical Chemistry C, 2007, 111, 7179-7184.	1.5	29
97	Electrochemical Modulation for Signal Discrimination in Surface Enhanced Raman Scattering (SERS). Analytical Chemistry, 2010, 82, 6919-6925.	3.2	29
98	New insight into the electrochemical desorption of alkanethiol SAMs on gold. Physical Chemistry Chemical Physics, 2012, 14, 12355.	1.3	29
99	Electrodeposition of gold nanoparticles on aryl diazonium monolayer functionalized HOPG surfaces. Physical Chemistry Chemical Physics, 2016, 18, 1953-1960.	1.3	29
100	Passivity Breakdown of Mild Steel in Sea Water in the Presence of Sulfate Reducing Bacteria. Corrosion, 1980, 36, 550-554.	0.5	28
101	Validity of the Kardar-Parisi-Zhang equation in the asymptotic limit of metal electrodeposition. Physical Review B, 1999, 59, 4638-4641.	1.1	28
102	Smoothening Mechanism of Thiourea on Silver Electrodeposition. Real Time Imaging of the Growth Front Evolution. Langmuir, 1999, 15, 1508-1514.	1.6	28
103	Templated electrodeposition of patterned soft magnetic films. Applied Physics Letters, 2002, 80, 1061-1063.	1.5	28
104	Surface Structure and Chemistry of Alkanethiols on Au(100)-(1 Ã— 1) Substrates. Journal of Physical Chemistry C, 2016, 120, 291-296.	1.5	28
105	Evolution of the Growth Front for Copper Electrodeposition Followed by Real Time Imaging. Langmuir, 1998, 14, 4308-4314.	1.6	27
106	Hydrogen-Induced Deformations of Metals Followed by in Situ Scanning Tunneling Microscopy. Palladium Electrolytic Hydrogen Charging and Discharging in Alkaline Solution. Langmuir, 1999, 15, 1-5.	1.6	27
107	Molding and Replication of Ceramic Surfaces with Nanoscale Resolution. Small, 2005, 1, 300-309.	5.2	27
108	Oxygen Reduction on Ironâ€"Melanin Granular Surfaces. Journal of Physical Chemistry C, 2009, 113, 17097-17103.	1.5	27

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109	Improved Vapor Selectivity and Stability of Localized Surface Plasmon Resonance with a Surfactant-Coated Au Nanoparticles Film. Analytical Chemistry, 2012, 84, 4886-4892.	3.2	27
110	Scanning Tunneling Microscopy, Voltammetry, and X-ray Photoelectron Spectroscopy Study of the Early Stages of Electrochemical Faceting of Gold (111) in Aqueous Sulfuric and Perchloric Acid. Journal of Physical Chemistry B, 2003, 107, 11452-11466.	1.2	26
111	Gas Phase Formation of Dense Alkanethiol Layers on GaAs(110). Journal of the American Chemical Society, 2007, 129, 7807-7813.	6.6	26
112	Growth of three-dimensional silver fractal electrodeposits under damped free convection. Physical Review E, 1993, 48, R2374-R2377.	0.8	25
113	Sulfur electroadsorption on Au(111). Electrochimica Acta, 2004, 49, 3643-3649.	2.6	25
114	The electrochemistry of nanostructured Niâ€“W alloys. Journal of Solid State Electrochemistry, 2013, 17, 307-313.	1.2	25
115	Thiol Adsorption on the Au(100)-hex and Au(100)-(1 Ã— 1) Surfaces. Journal of Physical Chemistry C, 2015, 119, 14248-14254.	1.5	25
116	Changes in the composition of the passive layer and pitting corrosion of stainless steel in phosphateâ€”borate buffer containing chloride ions. Electrochimica Acta, 1988, 33, 1645-1651.	2.6	24
117	The Kinetics of the (âˆš3Ã—âˆš3)R30Â° Sulfur Lattice Stripping from Au(111):â€‰ Competitive Desorptionâ€“Hole Nucleation and Growth Model. Langmuir, 2001, 17, 2334-2339.	1.6	24
118	Title is missing!. Journal of Applied Electrochemistry, 2002, 32, 611-620.	1.5	24
119	Surface nanopatterning of metal thin films by physical vapour deposition onto surface-modified silicon nanodots. Nanotechnology, 2004, 15, S197-S200.	1.3	24
120	Hydrocarbon Chain Length Induces Surface Structure Transitions in Alkanethiolateâ€“Gold Adatom Self-Assembled Monolayers on Au(111). Journal of Physical Chemistry C, 2013, 117, 2160-2165.	1.5	24
121	Surface Structure of 4-Mercaptopyridine on Au(111): A New Dense Phase. Langmuir, 2017, 33, 9565-9572.	1.6	24
122	A New Electrochemical Method for Determining the Fractal Dimension of the Surface of Rough Metal Electrodeposits: Its Application to Dendritic Silver Surfaces. Journal of the Electrochemical Society, 1992, 139, 1064-1070.	1.3	23
123	Fractal to nonfractal behavior of vapor-deposited gold surfaces and the relationship to the substrate temperature. Physical Review E, 1994, 50, 1367-1371.	0.8	23
124	Ag-modified Au nanocavity SERS substrates. Physical Chemistry Chemical Physics, 2009, 11, 7469.	1.3	23
125	A comparative study of electrodeposited and vapour deposited gold films: Fractal surface characterization through scanning tunnelling microscopy. Electrochimica Acta, 1992, 37, 2209-2214.	2.6	22
126	Dynamic scaling analysis of scanning force microscopy images of electrochemically formed polyaniline films in the oxidized form scale-dependent roughening kinetics. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4093.	1.7	22

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127	Sequential in situ STM imaging of electrodissolving copper in different aqueous acid solutions. Electrochimica Acta, 1998, 43, 3-12.	2.6	22
128	Three-dimensional off-lattice model for the interface growth of polycrystalline materials. Physical Review B, 1999, 59, 7354-7357.	1.1	22
129	Molecular Self-Assembly on Ultrathin Metallic Surfaces:Â Alkanethiolate Monolayers on Ag(1 Ã—) Tj ETQq1 1 0.784314 rgBT /Overloc	1.2	22
130	Influence of the Nanostructure of Palladium Mesoparticles on the Kinetics of Molecular Oxygen Electroreduction. Journal of Physical Chemistry B, 2004, 108, 10785-10795.	1.2	22
131	Room-Temperature Kinetics of Short-Chain Alkanethiol Film Growth on Ag(111) from the Vapor Phase. Journal of Physical Chemistry B, 2006, 110, 7095-7097.	1.2	22
132	Role of the capping agent in the interaction of hydrophilic Ag nanoparticles with DMPC as a model biomembrane. Environmental Science: Nano, 2016, 3, 462-472.	2.2	22
133	Dynamics of sulfur adlayer transformations at metal/electrolyte interfaces. Journal of Chemical Physics, 1999, 111, 9457-9460.	1.2	21
134	The Influence of Adsorbates on the Growth Mode of Gold Islands Electrodeposited on the Basal Plane of Graphite. Langmuir, 2000, 16, 2915-2923.	1.6	21
135	â€œNakedâ€•gold nanoparticles supported on HOPG: melanin functionalization and catalytic activity. Nanoscale, 2011, 3, 1708.	2.8	21
136	Surface Chemistry of 4-Mercaptobenzoic Acid Self-Assembled on Ag(111) and Ag Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 24967-24974.	1.5	21
137	Stochastic and deterministic behaviours of 316 stainless steel pitting corrosion in phosphate-borate buffer containing sodium chloride. Electrochimica Acta, 1987, 32, 1049-1055.	2.6	20
138	Progress in the knowledge of irregular solid electrode surfaces. Electrochimica Acta, 1994, 39, 1481-1494.	2.6	20
139	A comparative study of the early stages of mercury, cadmium, lead, silver and copper electrodeposition on columnar and smooth platinum electrodes. Electrochimica Acta, 1996, 41, 2441-2449.	2.6	20
140	Effect of surface fractality on the permeability of transparent gas barrier coatings. Advanced Materials, 1997, 9, 654-658.	11.1	20
141	Scanning Tunneling Microscopy, Fourier Transform Infrared Reflectionâ^'Absorption Spectroscopy, and X-ray Photoelectron Spectroscopy of Thiourea Adsorption from Aqueous Solutions on Silver (111). Journal of Physical Chemistry B, 2002, 106, 9831-9838.	1.2	20
142	Thermal Annealing of Patterned Metal Surfaces. Langmuir, 2002, 18, 10430-10434.	1.6	20
143	On the Thermodynamic Stability of (â^š3 Ã— â^š3)R30Â° Methanethiolate Lattice on Reconstructed Au(111) Surface Models. Journal of Physical Chemistry C, 2008, 112, 19121-19124.	1.5	20
144	Electronic and magnetic properties of C60 thin films under ambient conditions: A multitechnique study. Organic Electronics, 2011, 12, 1483-1492.	1.4	20

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145	Influence of Capping on the Atomistic Arrangement in Palladium Nanoparticles at Room Temperature. Journal of Physical Chemistry C, 2014, 118, 24641-24647.	1.5	20
146	The pitting of mild steel in phosphate-borate solutions in the presence of sodium sulphate. Corrosion Science, 1985, 25, 291-303.	3.0	19
147	The influence of temperature on the pitting corrosion of copper. Electrochimica Acta, 1986, 31, 665-669.	2.6	19
148	Dynamics of roughness and surface reactions at solid electrodes. Electrochimica Acta, 1992, 37, 2155-2167.	2.6	19
149	Adsorption of short-chain alkanethiols on Ag(111) studied by direct recoiling spectroscopy. Surface Science, 2006, 600, 2305-2316.	0.8	19
150	From Monomers to Geometry-Constrained Molecules: One Step Further Toward Cyanide Bridged Wires. Inorganic Chemistry, 2009, 48, 11226-11235.	1.9	19
151	Surface Chemistry of Thiomalic Acid Adsorption on Planar Gold and Gold Nanoparticles. Langmuir, 2014, 30, 1820-1826.	1.6	19
152	Localization of adhesins on the surface of a pathogenic bacterial envelope through atomic force microscopy. Nanoscale, 2015, 7, 17563-17572.	2.8	19
153	The electrochemical behaviour of mild steel in phosphate-borate-sulphide solutions. Corrosion Science, 1983, 23, 717-732.	3.0	18
154	Electrochemical behaviour of copper in potassium thiocyanateâ€"I. Dissolution, passivation and pitting processes. Electrochimica Acta, 1986, 31, 671-680.	2.6	18
155	Kinetics and Mechanism of Î²-Brass Dealloying in Aqueous 0.5 M Sodium Chloride Solution Derived from Combined Scanning Tunneling Microscopy and Electrochemical Data. Langmuir, 1996, 12, 500-507.	1.6	18
156	Stable interface dynamics for copper electrodeposition in the presence of organic additives: Evidence for a gas-like surface state of the organic adsorbate. Physical Review B, 2000, 62, 13098-13103.	1.1	18
157	Comparative Molecular Resolution STM Imaging of Thiourea, Ethylthiourea, and Sulfur Self-Assembled Adlayer Structures on Silver (111). Langmuir, 2003, 19, 5336-5343.	1.6	18
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