Israel Rubinstein

List of Publications by Year
in descending order

73 papers	6,030 citations	81900 39 h-index	82547 72 g-index
76 all docs	76 docs citations	76 times ranked	5816 citing authors

#	Article	IF	Citations
1	Organized self-assembling monolayers on electrodes. 2. Monolayer-based ultramicroelectrodes for the study of very rapid electrode kinetics. The Journal of Physical Chemistry, 1987, 91, 6663-6669.	2.9	482
2	Thioaromatic monolayers on gold: a new family of self-assembling monolayers. Langmuir, 1993, 9, 2974-2981.	3.5	436
3	Characterization of octadecanethiol-coated gold electrodes as microarray electrodes by cyclic voltammetry and ac impedance spectroscopy. Langmuir, 1993, 9, 3660-3667.	3.5	396
4	Ionic recognition and selective response in self-assembling monolayer membranes on electrodes. Nature, 1988, 332, 426-429.	27.8	345
5	Self-Assembled Monolayers on Oxidized Metals. 2. Gold Surface Oxidative Pretreatment, Monolayer Properties, and Depression Formation. Langmuir, 1998, 14, 1116-1121.	3.5	224
6	Ultrathin Gold Island Films on Silanized Glass. Morphology and Optical Properties. Chemistry of Materials, 2004, 16, 3476-3483.	6.7	193
7	Nanoparticle Nanotubes. Angewandte Chemie - International Edition, 2003, 42, 5576-5579.	13.8	174
8	Vacuum-deposited gold films. Surface Science, 1992, 264, 312-326.	1.9	168
9	Sensitivity and Optimization of Localized Surface Plasmon Resonance Transducers. ACS Nano, 2011, 5, 748-760.	14.6	155
10	Alkanethiol Monolayers on Preoxidized Gold. Encapsulation of Gold Oxide under an Organic Monolayer. Langmuir, 1994, 10, 4566-4573.	3.5	154
11	UV/Vis Spectroscopy of Metalloporphyrin and Metallophthalocyanine Monolayers Self-Assembled on Ultrathin Gold Films. Journal of Physical Chemistry B, 2000, 104, 8238-8244.	2.6	148
12	Controlled surface charging as a depth-profiling probe for mesoscopic layers. Nature, 2000, 406, 382-385.	27.8	143
13	Chemical Deposition of Cu₂O Nanocrystals with Precise Morphology Control. ACS Nano, 2014, 8, 162-174.	14.6	140
14	Silica-Stabilized Gold Island Films for Transmission Localized Surface Plasmon Sensing. Journal of the American Chemical Society, 2007, 129, 84-92.	13.7	136
15	Morphology and Refractive Index Sensitivity of Gold Island Films. Chemistry of Materials, 2009, 21, 5875-5885.	6.7	124
16	Ion-selective monolayer membranes based upon self-assembling tetradentate ligand monolayers on gold electrodes. 2. Effect of applied potential on ion binding. Journal of the American Chemical Society, 1991, 113, 5176-5182.	13.7	120
17	Tunable Localized Plasmon Transducers Prepared by Thermal Dewetting of Percolated Evaporated Gold Films. Journal of Physical Chemistry C, 2011, 115, 24642-24652.	3.1	114
18	Biological Sensing Using Transmission Surface Plasmon Resonance Spectroscopy. Langmuir, 2004, 20, 7365-7367.	3.5	109

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19	Transmission Surface-Plasmon Resonance (T-SPR) Measurements for Monitoring Adsorption on Ultrathin Gold Island Films. Chemistry - A European Journal, 2002, 8, 3849-3857.	3.3	107
20	Coordination-Controlled Self-Assembled Multilayers on Gold. Journal of the American Chemical Society, 1998, 120, 13469-13477.	13.7	102
21	Coordination-Based Gold Nanoparticle Layers. Journal of the American Chemical Society, 2005, 127, 9207-9215.	13.7	100
22	Biological Sensing and Interface Design in Gold Island Film Based Localized Plasmon Transducers. Analytical Chemistry, 2008, 80, 7487-7498.	6.5	100
23	Highly Stable Localized Plasmon Transducers Obtained by Thermal Embedding of Gold Island Films on Glass. Advanced Materials, 2008, 20, 3893-3899.	21.0	98
24	Differential Plasmon Spectroscopy as a Tool for Monitoring Molecular Binding to Ultrathin Gold Films. Journal of the American Chemical Society, 2001, 123, 3177-3178.	13.7	92
25	Ion-selective monolayer membranes based upon self-assembling tetradentate ligand monolayers on gold electrodes. 3. Application as selective ion sensors. Langmuir, 1992, 8, 1183-1187.	3.5	90
26	Solid-State Thermal Dewetting of Just-Percolated Gold Films Evaporated on Glass: Development of the Morphology and Optical Properties. Journal of Physical Chemistry C, 2013, 117, 11337-11346.	3.1	88
27	Optimization of Localized Surface Plasmon Resonance Transducers for Studying Carbohydrateâ€“Protein Interactions. Analytical Chemistry, 2012, 84, 232-240.	6.5	83
28	Chemical Deposition and Stabilization of Plasmonic Copper Nanoparticle Films on Transparent Substrates. Chemistry of Materials, 2012, 24, 2501-2508.	6.7	83
29	Stabilization of Gold Nanoparticle Films on Glass by Thermal Embedding. ACS Applied Materials & Interfaces, 2011, 3, 978-987.	8.0	81
30	Template Synthesis of Nanotubes by Room-Temperature Coalescence of Metal Nanoparticles. Chemistry of Materials, 2005, 17, 3743-3748.	6.7	79
31	Branched Coordination Multilayers on Gold. Journal of the American Chemical Society, 2005, 127, 17877-17887.	13.7	72
32	Polymer-Coated Gold Island Films as Localized Plasmon Transducers for Gas Sensing. Journal of Physical Chemistry B, 2008, 112, 14530-14538.	2.6	64
33	Critical Issues in Localized Plasmon Sensing. Journal of Physical Chemistry C, 2014, 118, 8227-8244.	3.1	61
34	Widely-Applicable Gold Substrate for the Study of Ultrathin Overlayers. Journal of the American Chemical Society, 2004, 126, 5569-5576.	13.7	60
35	Sensitivity of Transmission Surface Plasmon Resonance (T-SPR) Spectroscopy: Self-Assembled Multilayers on Evaporated Gold Island Films. Chemistry - A European Journal, 2005, 11, 5555-5562.	3.3	59
36	Divergent Growth of Coordination Dendrimers on Surfaces. Journal of the American Chemical Society, 2006, 128, 8341-8349.	13.7	55

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37	A Metal-Ion Coordinated Hybrid Multilayer. Langmuir, 2000, 16, 4420-4423.	3.5	48
38	Mechanism of morphology transformation during annealing of nanostructured gold films on glass. Physical Chemistry Chemical Physics, 2013, 15, 4656.	2.8	44
39	Biomimetic Ionâ€binding Monolayers on Gold and Their Characterization by ACâ€Impedance Spectroscopy. Chemistry - A European Journal, 1996, 2, 759-766.	3.3	42
40	Coordination-Based Symmetric and Asymmetric Bilayers on Gold Surfaces. Chemistry - A European Journal, 1998, 4, 502-507.	3.3	40
41	Thirdâ€Order Nonlinear Optical Response of Goldâ€Island Films. Advanced Functional Materials, 2008, 18, 1281-1289.	14.9	39
42	Layer-by-Layer Assembly of Ordinary and Composite Coordination Multilayers. Langmuir, 2004, 20, 10727-10733.	3.5	37
43	Real-time plasmon spectroscopy study of the solid-state oxidation and Kirkendall void formation in copper nanoparticles. Nanoscale, 2017, 9, 12573-12589.	5.6	36
44	Preparation of Graded Materials by Laterally Controlled Template Synthesis. Journal of the American Chemical Society, 2003, 125, 4718-4719.	13.7	35
45	A Quantitative, Realâ€Time Assessment of Binding of Peptides and Proteins to Gold Surfaces. Chemistry - A European Journal, 2011, 17, 1327-1336.	3.3	35
46	Improved Sensitivity of Localized Surface Plasmon Resonance Transducers Using Reflection Measurements. Journal of Physical Chemistry Letters, 2011, 2, 1223-1226.	4.6	29
47	Template-Free Electroless Plating of Gold Nanowires: Direct Surface Functionalization with Shape-Selective Nanostructures for Electrochemical Applications. ACS Applied Materials & Interfaces, 2017, 9, 31142-31152.	8.0	29
48	Assembly of Coordination Nanostructures via Ligand Derivatization of Oxide Surfaces. Langmuir, 2006, 22, 2130-2135.	3.5	25
49	Selective action of artificial membranes. Nature, 1989, 337, 217-217.	27.8	24
50	Nucleationâ€Controlled Solution Deposition of Silver Nanoplate Architectures for Facile Derivatization and Catalytic Applications. Advanced Materials, 2018, 30, e1805179.	21.0	23
51	Stabilization of Metal Nanoparticle Films on Glass Surfaces Using Ultrathin Silica Coating. Analytical Chemistry, 2013, 85, 10022-10027.	6.5	22
52	pHâ€Dependent Galvanic Replacement of Supported and Colloidal Cu₂O Nanocrystals with Gold and Palladium. Small, 2015, 11, 3942-3953.	10.0	22
53	Direct Observation of Aminoglycosideâ€“RNA Binding by Localized Surface Plasmon Resonance Spectroscopy. Analytical Chemistry, 2013, 85, 2200-2207.	6.5	21
54	A General Kinetic-Optical Model for Solid-State Reactions Involving the Nano Kirkendall Effect. The Case of Copper Nanoparticle Oxidation. Journal of Physical Chemistry C, 2016, 120, 16140-16152.	3.1	19

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55	Empowering Electroless Plating to Produce Silver Nanoparticle Films for DNA Biosensing Using Localized Surface Plasmon Resonance Spectroscopy. ACS Applied Bio Materials, 2019, 2, 856-864.	4.6	17
56	Auâ€“Pd Alloy Gradients Prepared by Laterally Controlled Template Synthesis. Advanced Functional Materials, 2006, 16, 693-698.	14.9	16
57	Expanding the boundaries of metal deposition: High aspect ratio silver nanoplatelets created by merging nanobelts. Electrochimica Acta, 2018, 264, 233-243.	5.2	16
58	A Composite GoldSilicon Oxide Surface for Mesoscopic Patterning. Journal of Physical Chemistry B, 2003, 107, 5540-5546.	2.6	14
59	Distance-dependent fluorescence of tris(bipyridine)ruthenium(<scp>ii</scp>) on supported plasmonic gold nanoparticle ensembles. Nanoscale, 2014, 6, 15134-15143.	5.6	14
60	Preparative Manipulation of Gold Nanoparticles by Reversible Binding to a Polymeric Solid Support. Chemistry - A European Journal, 2005, 11, 2836-2841.	3.3	13
61	Underpotential deposition of copper in acetonitrile. Journal of Electroanalytical Chemistry, 2000, 491, 87-94.	3.8	12
62	Reversible Binding of Gold Nanoparticles to Polymeric Solid Supports. Chemistry of Materials, 2006, 18, 1247-1260.	6.7	12
63	Improved blocking properties of short-chain alkanethiol monolayers self-assembled on gold. Israel Journal of Chemistry, 2005, 45, 337-344.	2.3	11
64	Laterally Controlled Template Electrodeposition of Polyaniline. Israel Journal of Chemistry, 2008, 48, 359-366.	2.3	11
65	Selfâ€Assembly of Nanostructures on Surfaces Using Metalâ€“Organic Coordination. Israel Journal of Chemistry, 2010, 50, 333-346.	2.3	10
66	Localized Surface Plasmon Resonance (LSPR) Transducers Based on Random Evaporated Gold Island Films: Properties and Sensing Applications. , 2012, , 333-368.		10
67	Application of Surface Click Reactions to Localized Surface Plasmon Resonance (LSPR) Biosensing. Chemistry - A European Journal, 2017, 23, 10148-10155.	3.3	10
68	Oscillatory Behavior of the Long-Range Response of Localized Surface Plasmon Resonance Transducers. Journal of Physical Chemistry C, 2012, 116, 26865-26873.	3.1	9
69	Highly Sensitive Colorimetric Detection of Early Stage Aluminum Corrosion in Water Using Plasmonic Gold Nanoparticle Films. Advanced Optical Materials, 2018, 6, 1800599.	7.3	7
70	On the formation mechanism of metal nanoparticle nanotubes. Thin Solid Films, 2010, 518, 1661-1666.	1.8	6
71	Comparative assessment of the sensitivity of localized surface plasmon resonance transducers and interferenceâ€based Fabryâ€PÃ©rot transducers. Annalen Der Physik, 2012, 524, 713-722.	2.4	6
72	Mass Thickness Analysis of Gold Thin Films Using Room Temperature Gas-Phase Chlorination. Analytical Chemistry, 2009, 81, 2877-2883.	6.5	4

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73	Nanoparticle Nanotubes.. ChemInform, 2004, 35, no.	0.0	0