

R Bruce Lennox

List of Publications by Year in descending order

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53794

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docs citations

99
times ranked

7627
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer-Stabilized Gold Nanoparticles and Their Incorporation into Polymer Matrices. <i>Journal of the American Chemical Society</i> , 2001, 123, 10411-10412.	13.7	379
2	Structure and Dynamics in Alkanethiolate Monolayers Self-Assembled on Gold Nanoparticles: A DSC, FT-IR, and Deuterium NMR Study. <i>Journal of the American Chemical Society</i> , 1997, 119, 2682-2692.	13.7	347
3	Gold-Sulfur Bonding in 2D and 3D Self-Assembled Monolayers: XPS Characterization. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6562-6567.	2.6	329
4	Self-Assembled Monolayers on Gold Nanoparticles. <i>Chemistry - A European Journal</i> , 1996, 2, 359-363.	3.3	305
5	Polymer-Stabilized Gold Nanoparticles with High Grafting Densities. <i>Langmuir</i> , 2004, 20, 2867-2873.	3.5	266
6	New Insights into Brust-Schiffrin Metal Nanoparticle Synthesis. <i>Journal of the American Chemical Society</i> , 2010, 132, 9582-9584.	13.7	245
7	A Dynamic View of Self-Assembled Monolayers. <i>Accounts of Chemical Research</i> , 2000, 33, 475-481.	15.6	216
8	Gold Nanoparticle/Polymer Nanocomposites: Dispersion of Nanoparticles as a Function of Capping Agent Molecular Weight and Grafting Density. <i>Langmuir</i> , 2005, 21, 6063-6072.	3.5	213
9	Interfacial behavior of block polyelectrolytes. 1. Evidence for novel surface micelle formation. <i>Journal of the American Chemical Society</i> , 1991, 113, 5583-5588.	13.7	202
10	Insulating Properties of Self-Assembled Monolayers Monitored by Impedance Spectroscopy. <i>Langmuir</i> , 2000, 16, 4222-4228.	3.5	188
11	Assessment of 4-(Dimethylamino)pyridine as a Capping Agent for Gold Nanoparticles. <i>Langmuir</i> , 2005, 21, 6532-6539.	3.5	156
12	Potential-Induced Defects in n-Alkanethiol Self-Assembled Monolayers Monitored by Impedance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9004-9010.	2.6	151
13	Polystyrene-Poly(ethylene oxide) Diblock Copolymers Form Well-Defined Surface Aggregates at the Air/Water Interface. <i>Langmuir</i> , 1999, 15, 7714-7718.	3.5	148
14	Ferrocenylalkylthiolates as a Probe of Heterogeneity in Binary Self-Assembled Monolayers on Gold. <i>Langmuir</i> , 2006, 22, 4438-4444.	3.5	145
15	Preparation of Thiol-Capped Gold Nanoparticles by Chemical Reduction of Soluble Au(I)-Thiolates. <i>Chemistry of Materials</i> , 2005, 17, 5691-5696.	6.7	119
16	Stability of Functionalized Self-Assembled Monolayers as a Function of Applied Potential. <i>Langmuir</i> , 2000, 16, 7464-7470.	3.5	114
17	Place Exchange Reactions of Alkyl Thiols on Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2006, 128, 3476-3477.	13.7	112
18	Gold Nanoparticles Generated by Electron Beam Lithography of Gold(I)-Thiolate Thin Films. <i>Chemistry of Materials</i> , 2005, 17, 5774-5779.	6.7	104

#	ARTICLE	IF	CITATIONS
19	Interfacial behavior of block polyelectrolytes. 4. Polymorphism of (quasi) two-dimensional micelles. <i>The Journal of Physical Chemistry</i> , 1992, 96, 4727-4730.	2.9	100
20	Structure and electrochemical properties of microfiltration filter-lipid membrane systems. <i>Analytical Chemistry</i> , 1982, 54, 76-81.	6.5	97
21	A new reagent for the removal of the 4-methoxybenzyl ether: application to the synthesis of unusual macrocyclic and bolaform phosphatidylcholines.. <i>Journal of Organic Chemistry</i> , 1992, 57, 1777-1783.	3.2	97
22	Potential-Assisted Deposition of Alkanethiols on Au: Controlled Preparation of Single- and Mixed-Component SAMs. <i>Langmuir</i> , 2000, 16, 6188-6190.	3.5	97
23	Rapid Assembly of Functional Presynaptic Boutons Triggered by Adhesive Contacts. <i>Journal of Neuroscience</i> , 2009, 29, 12449-12466.	3.6	80
24	Nanoscale Polypyrrole Patterns Using Block Copolymer Surface Micelles as Templates. <i>Nano Letters</i> , 2001, 1, 735-738.	9.1	79
25	4-(N,N-Dimethylamino)pyridine-Protected Au Nanoparticles: Versatile Precursors for Water- and Organic-Soluble Gold Nanoparticles. <i>Chemistry of Materials</i> , 2006, 18, 4674-4680.	6.7	79
26	Selective Templated Growth of Polypyrrole Strands on Lipid Tubule Edges. <i>Chemistry of Materials</i> , 2000, 12, 1222-1228.	6.7	76
27	Patterned surfaces via self-assembly. <i>Current Opinion in Colloid and Interface Science</i> , 1999, 4, 52-59.	7.4	73
28	Electric Field Driven Protonation/Deprotonation of Self-Assembled Monolayers of Acid-Terminated Thiols. <i>Langmuir</i> , 2006, 22, 4420-4428.	3.5	72
29	Reversible long range network formation in gold nanoparticle - nematic liquid crystal composites. <i>Soft Matter</i> , 2012, 8, 173-179.	2.7	71
30	Interfacial behavior of block polyelectrolytes. 2. Aggregation numbers of surface micelles. <i>Langmuir</i> , 1991, 7, 1579-1584.	3.5	66
31	Microcantilever-Based Sensors: Effect of Morphology, Adhesion, and Cleanliness of the Sensing Surface on Surface Stress. <i>Analytical Chemistry</i> , 2007, 79, 8136-8143.	6.5	64
32	Tuning the miscibility of gold nanoparticles dispersed in liquid crystals via the thiol-for-DMAP reaction. <i>Journal of Materials Chemistry</i> , 2011, 21, 9043.	6.7	59
33	Preparation and Characterization of Polyelectrolyte-Coated Gold Nanoparticles. <i>Langmuir</i> , 2008, 24, 2532-2538.	3.5	58
34	Investigation of the Poly(L-lactide)/Poly(D-lactide) Stereocomplex at the Air-Water Interface by Polarization Modulation Infrared Reflection Absorption Spectroscopy. <i>Langmuir</i> , 2001, 17, 5842-5849.	3.5	56
35	Synthesis of Gold Nanoparticles via Electroless Deposition in SBA-15. <i>Chemistry of Materials</i> , 2005, 17, 2481-2483.	6.7	55
36	Supported Bilayers Formed from Different Phospholipids on Spherical Silica Substrates. <i>Langmuir</i> , 2009, 25, 5455-5458.	3.5	55

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37	Phase Transitions in Self-Assembled Monolayers Detected by Electrochemistry. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 2332-2335.	4.4	54
38	1D Cu(OH) ₂ Nanomaterial Synthesis Templated in Water Microdroplets. <i>Journal of the American Chemical Society</i> , 2010, 132, 6657-6659.	13.7	54
39	Rapid ¹⁸ F-Labeling and Loading of PEGylated Gold Nanoparticles for in Vivo Applications. <i>Bioconjugate Chemistry</i> , 2014, 25, 1143-1150.	3.6	53
40	Fullerenes, C60 and C70 at the air-water interface. <i>The Journal of Physical Chemistry</i> , 1992, 96, 8149-8152.	2.9	51
41	The Effect of Terminal Hydrogen Bonding on the Structure and Dynamics of Nanoparticle Self-Assembled Monolayers (SAMs): An NMR Dynamics Study. <i>Advanced Materials</i> , 1998, 10, 475-480.	21.0	51
42	Monolayer/bilayer transition in Langmuir films of derivatized gold nanoparticles at the gas/water interface: An x-ray scattering study. <i>Journal of Chemical Physics</i> , 2004, 120, 3446-3459.	3.0	51
43	Reversible long-range patterning of gold nanoparticles by smectic liquid crystals. <i>Soft Matter</i> , 2012, 8, 6593.	2.7	50
44	Electrochemical Desorption of n-Alkylthiol SAMs on Polycrystalline Gold: Studies Using A Ferrocenylalkylthiol Probe. <i>Langmuir</i> , 2007, 23, 292-296.	3.5	49
45	Pyroloquinolinequinone enzyme electrode based on the coupling of methanol dehydrogenase to a tetrathiafulvalene-tetracyanoquinodimethane electrode. <i>Analytical Chemistry</i> , 1991, 63, 1174-1178.	6.5	47
46	Polymer Templated Synthesis of AgCN and Ag Nanowires. <i>Chemistry of Materials</i> , 2009, 21, 2020-2026.	6.7	47
47	Uniform One-Dimensional Arrays of Tunable Gold Nanoparticles with Tunable Interparticle Distances. <i>Chemistry of Materials</i> , 2006, 18, 2628-2631.	6.7	45
48	Switching Atomic Friction by Electrochemical Oxidation. <i>Langmuir</i> , 2011, 27, 2561-2566.	3.5	45
49	Facile Phase Transfer of Large, Water-Soluble Metal Nanoparticles to Nonpolar Solvents. <i>Langmuir</i> , 2012, 28, 2909-2913.	3.5	44
50	Preparation of Water-Soluble Maleimide-Functionalized 3 nm Gold Nanoparticles: A New Bioconjugation Template. <i>Langmuir</i> , 2012, 28, 5508-5512.	3.5	42
51	Characterization of a gold coated cantilever surface for biosensing applications. <i>EPJ Techniques and Instrumentation</i> , 2015, 2, 1.	1.3	38
52	Chemical modification of single walled carbon nanotubes with tetrazine-tethered gold nanoparticles via a Diels-Alder reaction. <i>Chemical Communications</i> , 2013, 49, 10275.	4.1	37
53	Polymer-capped gold nanoparticles by ligand-exchange reactions. <i>Journal of Materials Chemistry</i> , 2008, 18, 5830.	6.7	35
54	Block copolymer self-assembly in two dimensions: nanoscale emulsions and foams. <i>Faraday Discussions</i> , 1994, 98, 283.	3.2	32

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55	Directing the Assembly of Gold Nanoparticles with Two-Dimensional Molecular Networks. ACS Nano, 2014, 8, 2214-2222.	14.6	32
56	Electrochemical investigation of novel polymerizable thiophene/ferrocene conjugates. Langmuir, 1992, 8, 959-964.	3.5	31
57	Self-Assembled Masks for the Transfer of Nanometer-Scale Patterns into Surfaces: Characterization by AFM and LFM. Nano Letters, 2002, 2, 131-135.	9.1	31
58	Enantiomeric Poly lactides at the Air/Water Interface: Isotherms and PM-IRRAS Studies of Enantiomers and Their Blend. Langmuir, 2003, 19, 333-340.	3.5	27
59	A Molecular and Thermodynamic View of the Assembly of Gold Nanoparticles in Nematic Liquid Crystal. Langmuir, 2013, 29, 1258-1263.	3.5	27
60	Synthesis of 3-chloro-6-((4-(di-tert-butyl[¹⁸ F]fluorosilyl)-benzyl)oxy)-1,2,4,5-tetrazine ([¹⁸ F]SiFA-OTz) for rapid tetrazine-based ¹⁸ F-radiolabeling. Chemical Communications, 2015, 51, 12415-12418.	4.1	27
61	Electrochemistry of organic conducting salt electrodes: a unified mechanistic description. The Journal of Physical Chemistry, 1992, 96, 5641-5652.	2.9	26
62	Ferrocenylalkylthiolate labeling of defects in alkylthiol self-assembled monolayers on gold. Physical Chemistry Chemical Physics, 2007, 9, 1013-1020.	2.8	26
63	Facile Covalent Modification of a Highly Ordered Pyrolytic Graphite Surface via an Inverse Electron Demand Diels-Alder Reaction under Ambient Conditions. Chemistry of Materials, 2014, 26, 5058-5062.	6.7	25
64	Characterization of Poly(ethylene oxide)-Capped Gold Nanoparticles in Water by Means of Transmission Electron Microscopy, Thermogravimetric Analysis, Mass Density, and Small Angle Scattering. Journal of Physical Chemistry C, 2010, 114, 6937-6943.	3.1	24
65	Synthesis of Porous Metallic Monoliths via Chemical Reduction of Au(I) and Ag(I) Nanostructured Sheets. Chemistry of Materials, 2011, 23, 4954-4959.	6.7	20
66	Rotating disc electrode characterization of immobilized glucose oxidase. Analytical Biochemistry, 1991, 195, 358-363.	2.4	19
67	Determination of ascorbic acid using an organic conducting salt electrode. Analytical Chemistry, 1992, 64, 147-151.	6.5	17
68	Preparation of Nanoscale Au Islands in Patterned Arrays. Langmuir, 2003, 19, 9097-9100.	3.5	17
69	Lipid Bilayer Membrane-Triggered Presynaptic Vesicle Assembly. ACS Chemical Neuroscience, 2010, 1, 86-94.	3.5	17
70	Surface Plasmon Resonance of Gold Nanoparticle Arrays Partially Embedded in Quartz Substrates. Journal of Physical Chemistry C, 2007, 111, 3658-3664.	3.1	16
71	An Electrochemically Controlled Microcantilever Biosensor. Langmuir, 2013, 29, 9951-9957.	3.5	16
72	Model-free description of polymer-coated gold nanoparticle dynamics in aqueous solutions obtained by Bayesian analysis of neutron spin echo data. Physical Review E, 2019, 99, 052504.	2.1	16

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73	Adsorption of Alkylthiol-Capped Gold Nanoparticles onto Alkylthiol Self-Assembled Monolayers: An SPR Study. <i>Langmuir</i> , 2006, 22, 1048-1054.	3.5	15
74	Surface Plasmon Resonance Spectroscopy Study of Electrostatically Adsorbed Layers. <i>Langmuir</i> , 2006, 22, 4589-4593.	3.5	14
75	Electrochemical synthesis of Ag(0)/Ag ₂ S heterojunctions templated on pre-formed Ag ₂ S nanowires. <i>Nanoscale</i> , 2011, 3, 1838.	5.6	13
76	Catalytic hydrogenation of CO ₂ from air via porous silica-supported Au nanoparticles in aqueous solution. <i>Green Chemistry</i> , 2021, 23, 3740-3749.	9.0	13
77	Electrophilic bromination of micelle-associated alkenes as a probe of micelle structure. <i>Journal of the American Chemical Society</i> , 1986, 108, 3771-3781.	13.7	12
78	Enhanced cyclization rates of large rings induced by a micellar environment. <i>Langmuir</i> , 1991, 7, 1336-1339.	3.5	12
79	High thermal stability of block copolymer-capped Au and Cu nanoparticles. <i>Chemical Communications</i> , 2014, 50, 11919-11921.	4.1	12
80	Hydrogen bonding vs. molecule-surface interactions in 2D self-assembly of [C ₆₀]fullerenecarboxylic acids. <i>Nanoscale</i> , 2016, 8, 16955-16962.	5.6	11
81	Insight into the Role of Ag in the Seed-Mediated Growth of Gold Nanorods: Implications for Biomedical Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 3790-3798.	5.0	10
82	An amperometric enzyme electrode for bile acids. <i>Analytica Chimica Acta</i> , 1993, 281, 655-661.	5.4	9
83	Multiple morphologies of amphiphilic diblock copolymer micelles in two and three dimensions. <i>Macromolecular Symposia</i> , 1997, 118, 647-655.	0.7	9
84	Oxidation of Gold Nanoparticles by Au(III) Complexes in Toluene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14096-14102.	3.1	9
85	Interfacing Living Cells and Spherically Supported Bilayer Lipid Membranes. <i>Langmuir</i> , 2015, 31, 4704-4712.	3.5	9
86	Elektrochemischer Nachweis von Phasenübergängen in selbstaggregierten Monoschichten. <i>Angewandte Chemie</i> , 1994, 106, 2429-2431.	2.0	8
87	Controlling C ₆₀ Organization through Dipole-Induced Band Alignment at Self-Assembled Monolayer Interfaces. <i>Chemistry of Materials</i> , 2016, 28, 8322-8329.	6.7	8
88	Tridentate benzylthiols on Au(111): control of self-assembly geometry. <i>Nanoscale</i> , 2015, 7, 5014-5022.	5.6	7
89	Synthesis and properties of new bisphosphatidylcholine lipids. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2043.	2.0	6
90	Selective in situ potential-assisted SAM formation on multi electrode arrays. <i>Nanotechnology</i> , 2016, 27, 455501.	2.6	6

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91	The Wetting of Gold and Silicon Nanoscale Arrays. <i>Langmuir</i> , 2007, 23, 1619-1622.	3.5	5
92	Potential Controlled Electrochemical Conversion of AgCN and Cu(OH) ₂ Nanofibers into Metal Nanoparticles, Nanoprisms, Nanofibers, and Porous Networks. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3745-3758.	8.0	5
93	Label-Free Visualization of Ultrastructural Features of Artificial Synapses via Cryo-EM. <i>ACS Chemical Neuroscience</i> , 2011, 2, 700-704.	3.5	5
94	Lipid Microdomains in Synapse Formation. <i>ACS Chemical Neuroscience</i> , 2016, 7, 833-841.	3.5	5
95	Single wall carbon nanotube (SWCNT)–gold nanorod (AuNR) conjugates via thermally-mild reaction conditions. <i>New Journal of Chemistry</i> , 2017, 41, 12392-12396.	2.8	5
96	Isolation of Functional Presynaptic Complexes from CNS Neurons: A Cell-Free Preparation for the Study of Presynaptic Compartments <i>In Vitro</i> . <i>ACS Chemical Neuroscience</i> , 2010, 1, 535-541.	3.5	3
97	Nanopatterning Gold by Templated Solid State Dewetting on the Silica Warp and Weft of Diatoms. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-11.	2.7	2
98	Halide Electrochemistry at a Deactivated Polypyrrole Thin Film Electrode. <i>Langmuir</i> , 1995, 11, 2303-2305.	3.5	0
99	Microcontact Printing Patterning of an HOPG Surface by an Inverse Electron Demand Diels–Alder Reaction. <i>Chemistry - A European Journal</i> , 2018, 24, 8904-8909.	3.3	0