

# Lloyd A Bumm

## List of Publications by Year in descending order

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34  
papers

4,468  
citations

331670

21  
h-index

434195

31  
g-index

34  
all docs

34  
docs citations

34  
times ranked

3822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductance Switching in Single Molecules Through Conformational Changes. <i>Science</i> , 2001, 292, 2303-2307.	12.6	1,213
2	Are Single Molecular Wires Conducting?. <i>Science</i> , 1996, 271, 1705-1707.	12.6	1,171
3	Electron Transfer through Organic Molecules. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8122-8127.	2.6	382
4	Insertion, Conductivity, and Structures of Conjugated Organic Oligomers in Self-Assembled Alkanethiol Monolayers on Au{111}. <i>Journal of the American Chemical Society</i> , 1998, 120, 2721-2732.	13.7	331
5	Surface-enhanced Raman scattering by citrate on colloidal silver. <i>The Journal of Physical Chemistry</i> , 1983, 87, 1014-1023.	2.9	196
6	Surface enhanced Raman scattering (SERS) of citrate ion adsorbed on colloidal silver. <i>Applied Optics</i> , 1980, 19, 3253.	2.1	144
7	Phase Separation within a Binary Self-Assembled Monolayer on Au{111} Driven by an Amide-Containing Alkanethiol. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1119-1122.	2.6	139
8	Directed Self-Assembly to Create Molecular Terraces with Molecularly Sharp Boundaries in Organic Monolayers. <i>Journal of the American Chemical Society</i> , 1999, 121, 8017-8021.	13.7	138
9	The Role of Buried Hydrogen Bonds in Self-Assembled Mixed Composition Thiols on Au{111}. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10630-10636.	2.6	86
10	Combined Scanning Tunneling Microscopy and Infrared Spectroscopic Characterization of Mixed Surface Assemblies of Linear Conjugated Guest Molecules in Host Alkanethiolate Monolayers on Gold. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4880-4893.	2.6	83
11	Control and placement of molecules via self-assembly. <i>Nanotechnology</i> , 2001, 12, 231-237.	2.6	78
12	Evolution of Strategies for Self-Assembly and Hookup of Molecule-Based Devices. <i>Annals of the New York Academy of Sciences</i> , 1998, 852, 349-370.	3.8	64
13	Fluorescent in situ hybridization employing the conventional NBT/BCIP chromogenic stain. <i>BioTechniques</i> , 2007, 42, 756-759.	1.8	58
14	Scorpion fluorescence and reaction to light. <i>Animal Behaviour</i> , 2012, 83, 429-436.	1.9	52
15	Probing Electronic Properties of Conjugated and Saturated Molecules in Self-Assembled Monolayers. <i>Annals of the New York Academy of Sciences</i> , 1998, 852, 145-168.	3.8	47
16	Optically Transparent Au{111} Substrates: A Flat Gold Nanoparticle Platforms for High-Resolution Scanning Tunneling Microscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 6052-6053.	13.7	47
17	Spatially resolved surface enhanced second harmonic generation: Theoretical and experimental evidence for electromagnetic enhancement in the near infrared on a laser microfabricated Pt surface. <i>Journal of Chemical Physics</i> , 1989, 90, 1237-1252.	3.0	35
18	ZnO nanorod growth by chemical bath method. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2843-2848.	3.1	35

#	ARTICLE	IF	CITATIONS
19	Development of the viscerocranial skeleton during embryogenesis of the sea lamprey, <i>Petromyzon Marinus</i> . <i>Developmental Dynamics</i> , 2009, 238, 3126-3138.	1.8	35
20	Structure of ultrathin MgO films on Mo(001). <i>Thin Solid Films</i> , 2003, 445, 90-95.	1.8	33
21	Molecularly Ordered Decanethiolate Self-Assembled Monolayers on Au(111) from in Situ Cleaved Decanethioacetate: An NMR and STM Study of the Efficacy of Reagents for Thioacetate Cleavage. <i>Langmuir</i> , 2010, 26, 13221-13226.	3.5	32
22	Tailored polymer-metal fractal nanocomposites: an approach to highly active surface enhanced Raman scattering substrates. <i>Nanotechnology</i> , 2009, 20, 325705.	2.6	22
23	Measuring Molecular Junctions: What Is the Standard?. <i>ACS Nano</i> , 2008, 2, 403-407.	14.6	14
24	Real-space post-processing correction of thermal drift and piezoelectric actuator nonlinearities in scanning tunneling microscope images. <i>Review of Scientific Instruments</i> , 2017, 88, 013708.	1.3	14
25	Fabrication of Nanodielectric BaTiO <sub>3</sub> Composites Exhibiting Stable Capacitor Functions in the High Frequency (> 100 MHz) Through Interfacial Polarization Interactions. <i>Nanoscience and Nanotechnology Letters</i> , 2009, 1, 111-118.	0.4	4
26	Metal-Enhanced Fluorescence of Dye-Doped Silica Nano Particles. <i>Journal of Fluorescence</i> , 2015, 25, 311-317.	2.5	4
27	High resolution dopant profiling using a tunable AC scanning tunneling microscope. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	3
28	Interaction of the (2 $\times$ 3)rect. Adsorption-Site Basis and Alkyl-Chain Close Packing in Alkanethiol Self-Assembled Monolayers on Au(111): A Molecular Dynamics Study of Alkyl-Chain Conformation. <i>ACS Omega</i> , 2020, 5, 13802-13812.	3.5	3
29	A Comprehensive Study of the Bridge Site and Substrate Relaxation Asymmetry for Methanethiol Adsorption on Au(111) at Low Coverage. <i>ACS Omega</i> , 2020, 5, 20874-20881.	3.5	2
30	Force Field Parameter Development for the Thiolate/Defective Au(111) Interface. <i>Langmuir</i> , 2020, 36, 4098-4107.	3.5	2
31	Social function of a variable lateral stripe in <i>Xiphophorus hellerii</i> ?. <i>Ethology</i> , 2017, 123, 875-884.	1.1	1
32	“Oh, Give Me a Home”! An Informational Ode to the American Buffalo. <i>Journal of Agricultural and Food Information</i> , 2006, 7, 91-101.	1.1	0
33	Preparation and Characterization of Optically-Resonant Atomically Flat Nanosurface Substrates for High-Resolution Scanning Probe Microscopy of Single Molecules. <i>Microscopy and Microanalysis</i> , 2006, 12, 510-511.	0.4	0
34	Imaging the native inversion layer under buried oxide in silicon-on-insulator radio frequency device technology via scanning surface photovoltage microscopy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 052906.	1.2	0