

# Lee J Richter

## List of Publications by Citations

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165  
papers

11,087  
citations

55  
h-index

102  
g-index

172  
ext. papers

12,080  
ext. citations

9.3  
avg, IF

5.97  
L-index

#	Paper	IF	Citations
165	Optical properties of coupled metallic nanorods for field-enhanced spectroscopy. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	472
164	Contact-induced crystallinity for high-performance soluble acene-based transistors and circuits. <i>Nature Materials</i> , <b>2008</b> , 7, 216-21	27	421
163	CO electrolysis to multicarbon products at activities greater than 1 A cm. <i>Science</i> , <b>2020</b> , 367, 661-666	33.3	403
162	Molecular origin of high field-effect mobility in an indacenodithiophene-benzothiadiazole copolymer. <i>Nature Communications</i> , <b>2013</b> , 4, 2238	17.4	384
161	Semiconducting Thienothiophene Copolymers: Design, Synthesis, Morphology, and Performance in Thin-Film Organic Transistors. <i>Advanced Materials</i> , <b>2009</b> , 21, 1091-1109	24	382
160	Molecular packing of high-mobility diketo pyrrolo-pyrrole polymer semiconductors with branched alkyl side chains. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 15073-84	16.4	353
159	Critical Role of Side-Chain Attachment Density on the Order and Device Performance of Polythiophenes. <i>Macromolecules</i> , <b>2007</b> , 40, 7960-7965	5.5	297
158	Vibrationally resolved sum-frequency generation with broad-bandwidth infrared pulses. <i>Optics Letters</i> , <b>1998</b> , 23, 1594-6	3	297
157	Laser-excited hot-electron induced desorption: A theoretical model applied to NO/Pt(111). <i>Surface Science</i> , <b>1990</b> , 235, 317-333	1.8	265
156	High Carrier Mobility Polythiophene Thin Films: Structure Determination by Experiment and Theory. <i>Advanced Materials</i> , <b>2007</b> , 19, 833-837	24	254
155	Anisotropic Structure and Charge Transport in Highly Strain-Aligned Regioregular Poly(3-hexylthiophene). <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3697-3705	15.6	253
154	Molecular order in high-efficiency polymer/fullerene bulk heterojunction solar cells. <i>ACS Nano</i> , <b>2011</b> , 5, 8248-57	16.7	243
153	Measuring molecular order in poly(3-alkylthiophene) thin films with polarizing spectroscopies. <i>Langmuir</i> , <b>2007</b> , 23, 834-42	4	203
152	Variations in Semiconducting Polymer Microstructure and Hole Mobility with Spin-Coating Speed. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5610-5612	9.6	197
151	State-resolved evidence for hot carrier driven surface reactions: Laser-induced desorption of NO from Pt(111). <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 6429-6446	3.9	194
150	Substrate-dependent interface composition and charge transport in films for organic photovoltaics. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 233303	3.4	193
149	Molecular characterization of organic electronic films. <i>Advanced Materials</i> , <b>2011</b> , 23, 319-37	24	190

148	Correlations between mechanical and electrical properties of polythiophenes. <i>ACS Nano</i> , <b>2010</b> , 4, 7538-4467	46.7	178
147	Interfacial Segregation in Polymer/Fullerene Blend Films for Photovoltaic Devices. <i>Macromolecules</i> , <b>2010</b> , 43, 3828-3836	5.5	177
146	Absolute Molecular Orientational Distribution of the Polystyrene Surface. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 2785-2791	3.4	171
145	Efficient electrically powered CO <sub>2</sub> -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , <b>2020</b> , 5, 478-486	62.3	163
144	Optically driven surface reactions: Evidence for the role of hot electrons. <i>Physical Review Letters</i> , <b>1988</b> , 61, 1321-1324	7.4	159
143	Morphology changes upon scaling a high-efficiency, solution-processed solar cell. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2835-2846	35.4	152
142	Controlling the orientation of terraced nanoscale "ribbons" of a poly(thiophene) semiconductor. <i>ACS Nano</i> , <b>2009</b> , 3, 780-7	16.7	145
141	Morphology Development in Solution-Processed Functional Organic Blend Films: An In Situ Viewpoint. <i>Chemical Reviews</i> , <b>2017</b> , 117, 6332-6366	68.1	122
140	Use of X-ray diffraction, molecular simulations, and spectroscopy to determine the molecular packing in a polymer-fullerene bimolecular crystal. <i>Advanced Materials</i> , <b>2012</b> , 24, 6071-9	24	113
139	Correlating Stiffness, Ductility, and Morphology of Polymer:Fullerene Films for Solar Cell Applications. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 399-406	21.8	113
138	In Situ Back-Contact Passivation Improves Photovoltage and Fill Factor in Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807435	24	112
137	3D Nanoscale Characterization of Thin-Film Organic Photovoltaic Device Structures via Spectroscopic Contrast in the TEM 1. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17501-17508	3.8	110
136	Alkanethiols on platinum: multicomponent self-assembled monolayers. <i>Langmuir</i> , <b>2006</b> , 22, 2578-87	4	104
135	In Situ Characterization of Polymer/Fullerene Bilayer Stability. <i>Macromolecules</i> , <b>2015</b> , 48, 383-392	5.5	103
134	Vertically Segregated Structure and Properties of Small Molecule/Polymer Blend Semiconductors for Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 366-376	15.6	97
133	Molecular Basis of Mesophase Ordering in a Thiophene-Based Copolymer. <i>Macromolecules</i> , <b>2008</b> , 41, 5709-5715	5.5	97
132	In Situ Morphology Studies of the Mechanism for Solution Additive Effects on the Formation of Bulk Heterojunction Films. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1400975	21.8	94
131	Femtosecond Laser-Induced Desorption of CO from Cu(100): Comparison of Theory and Experiment. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4576-4579	7.4	93

130	Template Fabrication of Protein-Functionalized Gold-Polypyrrole-Gold Segmented Nanowires. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 3431-3438	9.6	90
129	Effect of Processing Additives on the Solidification of Blade-Coated Polymer/Fullerene Blend Films via In-Situ Structure Measurements. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 938-948	21.8	89
128	Immobilization of streptavidin on 4HβiC for biosensor development. <i>Applied Surface Science</i> , <b>2012</b> , 258, 6056-6063	6.7	82
127	Effect of Solution Shearing Method on Packing and Disorder of Organic Semiconductor Polymers. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2350-2359	9.6	81
126	Sub-picosecond charge-transfer at near-zero driving force in polymer:non-fullerene acceptor blends and bilayers. <i>Nature Communications</i> , <b>2020</b> , 11, 833	17.4	80
125	Comparison of Si-O-C interfacial bonding of alcohols and aldehydes on Si(111) formed from dilute solution with ultraviolet irradiation. <i>Langmuir</i> , <b>2005</b> , 21, 882-9	4	76
124	The populations of bridge and top site CO on Rh(100) vs coverage, temperature, and during reaction with O. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 6710-6721	3.9	73
123	A simple and robust approach to reducing contact resistance in organic transistors. <i>Nature Communications</i> , <b>2018</b> , 9, 5130	17.4	72
122	Dielectric response of aligned semiconducting single-wall nanotubes. <i>Physical Review Letters</i> , <b>2007</b> , 98, 147402	7.4	69
121	Advanced Ellipsometric Characterization of Conjugated Polymer Films. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2116-2134	15.6	68
120	In Situ Ellipsometric Study of PEG <sub>n</sub> Adsorption on Cu, Ag, and Au. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, C403	3.9	67
119	Morphological Origin of Charge Transport Anisotropy in Aligned Polythiophene Thin Films. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3422-3431	15.6	66
118	Vibrational spectroscopy of H on Pt(111): Evidence for universally soft parallel modes. <i>Physical Review B</i> , <b>1987</b> , 36, 9797-9800	3.3	65
117	The influence of adsorbate-adsorbate interactions on surface structure: The coadsorption of CO and H <sub>2</sub> on Rh(100). <i>Journal of Chemical Physics</i> , <b>1987</b> , 86, 477-490	3.9	62
116	Dynamical evolution of the 2D/3D interface: a hidden driver behind perovskite solar cell instability. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2343-2348	13	60
115	Selective study of polymer/dielectric interfaces with vibrationally resonant sum frequency generation via thin-film interference. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3084-3086	3.4	59
114	Mechanistic studies of photoinduced reactions at semiconductor surfaces. <i>Progress in Surface Science</i> , <b>1992</b> , 39, 155-226	6.6	59
113	Optical Characterization of Oligo(phenylene-ethynylene) Self-Assembled Monolayers on Gold. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12547-12559	3.4	58

112	Position-sensitive detector performance and relevance to time-resolved electron energy loss spectroscopy. <i>Review of Scientific Instruments</i> , <b>1986</b> , 57, 1469-1482	1.7	58
111	Controlling the Microstructure of Solution-Processable Small Molecules in Thin-Film Transistors through Substrate Chemistry. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1194-1203	9.6	57
110	Correlation of molecular orientation with adhesion at polystyrene/solid interfaces. <i>Chemical Physics Letters</i> , <b>2002</b> , 363, 161-168	2.5	55
109	Efficient upgrading of CO to C fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , <b>2019</b> , 10, 5186	17.4	55
108	Poly(sulfobetaine methacrylate)s as electrode modifiers for inverted organic electronics. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 540-9	16.4	53
107	Origin of nanoscale variations in photoresponse of an organic solar cell. <i>Nano Letters</i> , <b>2010</b> , 10, 1611-7	11.5	53
106	High performance airbrushed organic thin film transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 133304	3.4	52
105	Electrical and spectroscopic characterization of metal/monolayer/Si devices. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 21836-41	3.4	51
104	Formation of silicon-based molecular electronic structures using flip-chip lamination. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12451-7	16.4	47
103	Competitive Adsorption of PEG, Cl <sup>+</sup> and SPS/MPS on Cu: An In Situ Ellipsometric Study. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, C557	3.9	47
102	Potential Dependence of Competitive Adsorption of PEG, Cl <sup>+</sup> and SPS/MPS on Cu. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, D277	3.9	45
101	Depletion-electric-field-induced second-harmonic generation near oxidized GaAs(001) surfaces. <i>Physical Review B</i> , <b>1997</b> , 55, 10694-10706	3.3	44
100	Thin Film Microstructure of a Solution Processable Pyrene-Based Organic Semiconductor. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5743-5749	9.6	44
99	Kinetics of unimolecular decomposition on surfaces: Methanol on Ni(110). <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 2569-2582	3.9	44
98	Blade Coating Aligned, High-Performance, Semiconducting-Polymer Transistors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1924-1936	9.6	43
97	In Situ, Vibrationally Resonant Sum Frequency Spectroscopy Study of the Self-Assembly of Dioctadecyl Disulfide on Gold. <i>Langmuir</i> , <b>2002</b> , 18, 7549-7556	4	43
96	State-resolved studies of the laser-induced desorption of NO from Si(111) 7 $\times$ 7: Low coverage results. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 2324-2338	3.9	43
95	Influence of substrate on crystallization in polythiophene/fullerene blends. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 1375-1381	6.4	42

94	Scanning near-field infrared microscopy and spectroscopy with a broadband laser source. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 4832	2.5	41
93	Non-Boltzmann rotational and inverted spin-orbit state distributions for laser-induced desorption of NO from Pt(111). <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 5344-5345	3.9	41
92	Multidetector electron energy-loss spectrometer for time-resolved surface studies. <i>Review of Scientific Instruments</i> , <b>1988</b> , 59, 22-44	1.7	40
91	Real-time X-ray scattering studies of film evolution in high performing small-molecule fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8764-8771	13	39
90	A Chemically Orthogonal Hole Transport Layer for Efficient Colloidal Quantum Dot Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906199	24	38
89	Structure of Polystyrene at the Interface with Various Liquids. <i>Macromolecules</i> , <b>2004</b> , 37, 7742-7746	5.5	38
88	Observation of significant nitrogen-oxygen bond weakening in nitric oxide on Rh(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1986</b> , 4, 1487-1490	2.9	38
87	Volume Expansion Caused by Water Penetration into Silica Glass. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 78-87	3.8	37
86	Characterization and control of lipid layer fluidity in hybrid bilayer membranes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 2094-100	16.4	37
85	Direct Correlation of Charge Transfer Absorption with Molecular Donor:Acceptor Interfacial Area via Photothermal Deflection Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5256-9	16.4	36
84	Surface-state-mediated photochemistry: Laser-induced desorption of NO from Si(111). <i>Physical Review Letters</i> , <b>1990</b> , 65, 1957-1960	7.4	36
83	Electron-energy-loss spectroscopy of H adsorbed on Rh(100): Interpretation of overtone spectra as two-phonon bound states. <i>Physical Review B</i> , <b>1988</b> , 38, 10403-10420	3.3	36
82	Coadsorption-induced site changes: Bridging hydrogen from CO and H on Rh(100). <i>Surface Science</i> , <b>1988</b> , 195, L182-L192	1.8	35
81	Reactive adsorption of H <sub>2</sub> CO on Ni(110) at 95 K. <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 2165-2169	3.9	35
80	Structural and chemical characterization of monofluoro-substituted oligo(phenylene-ethynylene) thiolate self-assembled monolayers on gold. <i>Langmuir</i> , <b>2004</b> , 20, 6195-205	4	34
79	Temperature programmed electron energy loss spectroscopy: Kinetics of CH <sub>3</sub> OH decomposition on Ni(110). <i>Chemical Physics Letters</i> , <b>1984</b> , 111, 185-189	2.5	33
78	Origin of Differing Reactivities of Aliphatic Chains on H <sub>2</sub> Si(111) and Oxide Surfaces with Metal. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 9384-9392	3.8	32
77	CO adsorption site occupations on Fe(111) vs coverage and temperature: The kinetics of adsorption and reaction. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 2050-2062	3.9	31

76	Summary Abstract: Vibrational modes of hydrogen adsorbed on Rh(100) and their relevance to desorption kinetics. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1987</b> , 5, 453-454	2.9	31
75	Film morphology evolution during solvent vapor annealing of highly efficient small molecule donor/acceptor blends. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15511-15521	13	30
74	Crystal Orientation Drives the Interface Physics at Two/Three-Dimensional Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 5713-5720	6.4	29
73	Higher order effects in organic LEDs with sub-bandgap turn-on. <i>Nature Communications</i> , <b>2019</b> , 10, 227	17.4	29
72	Demonstration of molecular assembly on Si (100) for CMOS-compatible molecule-based electronic devices. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 4259-61	16.4	29
71	Constraints on the use of polarization and angle-of-incidence to characterize surface photoreactions. <i>Chemical Physics Letters</i> , <b>1991</b> , 186, 423-426	2.5	29
70	SEIRAS Study of Chloride-Mediated Polyether Adsorption on Cu. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 21933-21951	3.8	29
69	In Situ Observation of Alignment Templating by Seed Crystals in Highly Anisotropic Polymer Transistors. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4133-4147	9.6	27
68	Versatile temperature controller for the investigation of surface phenomena. <i>Review of Scientific Instruments</i> , <b>1984</b> , 55, 732-736	1.7	27
67	Stable Postfullerene Solar Cells via Direct C <sub>60</sub> Arylation Polymerization. MorphologyPerformance Relationships. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4313-4321	9.6	24
66	Probing Charge Recombination Dynamics in Organic Photovoltaic Devices under Open-Circuit Conditions. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400356	21.8	24
65	Determination of lipid phase transition temperatures in hybrid bilayer membranes. <i>Langmuir</i> , <b>2006</b> , 22, 8333-6	4	23
64	Scatterometry for in situ measurement of pattern reflow in nanoimprinted polymers. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 233105	3.4	22
63	The deuterium kinetic isotope effect in the decomposition of methanol on Ni(110). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1985</b> , 3, 1549-1553	2.9	22
62	An In Situ Ellipsometric Study of Cl <sup>-</sup> Induced Adsorption of PEG on Ru and on Underpotential Deposited Cu on Ru. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, C235	3.9	20
61	Molecular devices formed by direct monolayer attachment to silicon. <i>Solid-State Electronics</i> , <b>2004</b> , 48, 1747-1752	1.7	20
60	Improved multidetector for time-resolved electron energy loss spectroscopy. <i>Review of Scientific Instruments</i> , <b>1989</b> , 60, 12-16	1.7	20
59	Real-Time Photoluminescence Studies of Structure Evolution in Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502011	21.8	20



58	Classification of semiconducting polymeric mesophases to optimize device postprocessing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 1641-1653	2.6	19
57	Removing optical artifacts in near-field scanning optical microscopy by using a three-dimensional scanning mode. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 2785-2789	2.5	19
56	Morphological characterization of fullerene and fullerene-free organic photovoltaics by combined real and reciprocal space techniques. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 1921-1934	2.5	18
55	Dithiol-based modification of poly(dopamine): enabling protein resistance via short-chain ethylene oxide oligomers. <i>Chemical Communications</i> , <b>2015</b> , 51, 6591-4	5.8	18
54	Modeling illumination-mode near-field optical microscopy of Au nanoparticles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2001</b> , 18, 704	1.8	18
53	In Situ X-ray Scattering Studies of the Influence of an Additive on the Formation of a Low-Bandgap Bulk Heterojunction. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2283-2293	9.6	17
52	Attachment of a diruthenium compound to Au and SiO <sub>2</sub> /Si surfaces by "click" chemistry. <i>Langmuir</i> , <b>2014</b> , 30, 10280-9	4	17
51	Interface characterization of molecular-monolayer/SiO <sub>2</sub> based molecular junctions. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 1088-1096	1.7	17
50	Laser-induced desorption of NO from Si(111): effects of coverage on NO vibrational populations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1990</b> , 54-55, 181-190	1.7	17
49	High efficiency, dual collection mode near-field scanning optical microscope. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1998</b> , 16, 1948		16
48	A Low-Swelling Polymeric Mixed Conductor Operating in Aqueous Electrolytes. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005723	24	16
47	Photodissociation dynamics of Mo(CO) <sub>6</sub> at 266 and 355 nm: CO photofragment kinetic-energy and internal-state distributions. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 7937-7950	3.9	15
46	Morphology of a thermally stable small molecule OPV blend comprising a liquid crystalline donor and fullerene acceptor. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16458-16471	13	14
45	Simple transfer from spin coating to blade coating through processing aggregated solutions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20687-20695	13	14
44	Imaging and autocorrelation of ultrafast infrared laser pulses in the 3-11- $\mu$ m range with silicon CCD cameras and photodiodes. <i>Optics Letters</i> , <b>2001</b> , 26, 238-40	3	14
43	Adsorption and photodecomposition of Mo(CO) <sub>6</sub> on Si(111) $\overline{7\overline{7}}$ : An infrared reflection absorption spectroscopy study. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 3187-3200	3.9	14
42	Control Over Ligand Exchange Reactivity in Hole Transport Layer Enables High-Efficiency Colloidal Quantum Dot Solar Cells. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 468-476	20.1	14
41	Thin Film Elastic Modulus of Degradable Tyrosine-Derived Polycarbonate Biomaterials and Their Blends. <i>Macromolecules</i> , <b>2009</b> , 42, 1212-1218	5.5	13



40	Nonlinear optics as a detection scheme for biomimetic sensors: SFG spectroscopy of hybrid bilayer membrane formation <b>1999</b> ,		13
39	Reduced Bimolecular Recombination in Blade-Coated, High-Efficiency, Small-Molecule Solar Cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6893-6904	13	12
38	Near-field scanning optical microscopy incorporating Raman scattering for vibrational mode contrast. <i>Surface Science</i> , <b>1999</b> , 433-435, 48-52	1.8	12
37	Role of the electronically-active amorphous state in low-temperature processed In <sub>2</sub> O <sub>3</sub> thin-film transistors. <i>Materials Advances</i> , <b>2020</b> , 1, 167-176	3.3	11
36	Toward Fast Screening of Organic Solar Cell Blends. <i>Advanced Science</i> , <b>2020</b> , 7, 2000960	13.6	11
35	Characterization of SiGe films for use as a National Institute of Standards and Technology Microanalysis Reference Material (RM 8905). <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 1-12	0.5	10
34	The Structural Origin of Electron Injection Enhancements with Fulleropyrrolidine Interlayers. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500852	4.6	9
33	Three Dimensionally Structured CdTe Thin-Film Photovoltaic Devices with Self-Aligned Back-Contacts: Electrodeposition on Interdigitated Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, H654	3.9	8
32	In situ measurement of annealing-induced line shape evolution in nanoimprinted polymers using scatterometry <b>2009</b> ,		8
31	Complex species and pressure dependence of intensity scaling laws for contamination rates of EUV optics determined by XPS and ellipsometry <b>2010</b> ,		8
30	Broadband coherent anti-Stokes Raman spectroscopy characterization of polymer thin films. <i>Applied Spectroscopy</i> , <b>2006</b> , 60, 1097-102	3.1	8
29	Photodecomposition dynamics of Mo(CO) <sub>6</sub> /Si(111) 7 $\mu$ : CO internal state and translational energy distributions. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 7651-7654	3.9	8
28	Confinement and Processing Can Alter the Morphology and Periodicity of Bottlebrush Block Copolymers in Thin Films. <i>ACS Nano</i> , <b>2020</b> ,	16.7	8
27	Optics contamination studies in support of high-throughput EUV lithography tools <b>2011</b> ,		7
26	Influence of secondary tip shape on illumination-mode near-field scanning optical microscopy images. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>1999</b> , 16, 1936	1.8	7
25	Molecular Orientation Depth Profiles in Organic Glasses Using Polarized Resonant Soft X-ray Reflectivity. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6295-6309	9.6	7
24	Photodecomposition of Mo(CO) <sub>6</sub> /Si(111) 7 $\mu$ : CO state-resolved evidence for excited state relaxation and quenching. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 2929-2939	3.9	6
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22	Proton NMR study of the orientation and motion of H <sub>2</sub> O in Na $\beta$ alumina. <i>Journal of Chemical Physics</i> , <b>1982</b> , 76, 6-9	3.9	6
21	Side chain engineering control of mixed conduction in oligoethylene glycol-substituted polythiophenes. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 21410-21423	13	6
20	Surface plasmon polariton Raman microscopy. <i>Vibrational Spectroscopy</i> , <b>2012</b> , 60, 85-91	2.1	5
19	A synchrotron beamline for extreme-ultraviolet photoresist testing. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 073102	1.7	5
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16	Photodesorption dynamics of CO from Si (111): the role of surface defects. <i>Surface Science</i> , <b>1994</b> , 321, 127-132	1.8	4
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12	Charge transport and mobility relaxation in organic bulk heterojunction morphologies derived from electron tomography measurements. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15339-15350	7.1	3
11	Coating Thickness Controls Crystallinity and Enables Homoepitaxial Growth of Ultra-Thin-Channel Blade-Coated In <sub>2</sub> O <sub>3</sub> Transistors. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000354	6.4	3
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8	Chemical imaging with scanning near-field infrared microscopy and spectroscopy <b>2000</b> ,		2
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