

Lee J Richter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Structural and Morphological Characterization of Novel Organic Electrochemical Transistors via Four-dimensional (4D) Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1792-1794	0.5	0
164	A Low-Swelling Polymeric Mixed Conductor Operating in Aqueous Electrolytes. <i>Advanced Materials</i> , 2021 , 33, e2005723	24	16
163	Probing Crystallization Effects when Processing Bulk-Heterojunction Active Layers: Comparing Fullerene and Nonfullerene Acceptors. <i>Chemistry of Materials</i> , 2021 , 33, 657-667	9.6	3
162	Side chain engineering control of mixed conduction in oligoethylene glycol-substituted polythiophenes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21410-21423	13	6
161	Control Over Ligand Exchange Reactivity in Hole Transport Layer Enables High-Efficiency Colloidal Quantum Dot Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 468-476	20.1	14
160	The role of orientation in the MEL response of OLEDs. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10052-10064	10.64	1
159	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020 , 5, 478-486	62.3	163
158	Cosolvent Effects When Blade-Coating a Low-Solubility Conjugated Polymer for Bulk Heterojunction Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27416-27424	9.5	2
157	Role of the electronically-active amorphous state in low-temperature processed In ₂ O ₃ thin-film transistors. <i>Materials Advances</i> , 2020 , 1, 167-176	3.3	11
156	Toward Fast Screening of Organic Solar Cell Blends. <i>Advanced Science</i> , 2020 , 7, 2000960	13.6	11
155	Polarization Dependence of Charge Conduction in Conjugated Polymer Films Investigated with Time-Resolved Terahertz Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6993-7006	3.8	3
154	A Chemically Orthogonal Hole Transport Layer for Efficient Colloidal Quantum Dot Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1906199	24	38
153	CO electrolysis to multicarbon products at activities greater than 1 A cm. <i>Science</i> , 2020 , 367, 661-666	33.3	403
152	Sub-picosecond charge-transfer at near-zero driving force in polymer:non-fullerene acceptor blends and bilayers. <i>Nature Communications</i> , 2020 , 11, 833	17.4	80
151	Dynamical evolution of the 2D/3D interface: a hidden driver behind perovskite solar cell instability. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2343-2348	13	60
150	Confinement and Processing Can Alter the Morphology and Periodicity of Bottlebrush Block Copolymers in Thin Films. <i>ACS Nano</i> , 2020 ,	16.7	8
149	Molecular Orientation Depth Profiles in Organic Glasses Using Polarized Resonant Soft X-ray Reflectivity. <i>Chemistry of Materials</i> , 2020 , 32, 6295-6309	9.6	7

148	Charge transport and mobility relaxation in organic bulk heterojunction morphologies derived from electron tomography measurements. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15339-15350	7.1	3
147	Coating Thickness Controls Crystallinity and Enables Homoepitaxial Growth of Ultra-Thin-Channel Blade-Coated In ₂ O ₃ Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000354	6.4	3
146	Crystal Orientation Drives the Interface Physics at Two/Three-Dimensional Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5713-5720	6.4	29
145	Higher order effects in organic LEDs with sub-bandgap turn-on. <i>Nature Communications</i> , 2019 , 10, 227	17.4	29
144	Morphology of a thermally stable small molecule OPV blend comprising a liquid crystalline donor and fullerene acceptor. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16458-16471	13	14
143	Stable Postfullerene Solar Cells via Direct C ₆₀ Arylation Polymerization. MorphologyPerformance Relationships. <i>Chemistry of Materials</i> , 2019 , 31, 4313-4321	9.6	24
142	In Situ Observation of Alignment Templating by Seed Crystals in Highly Anisotropic Polymer Transistors. <i>Chemistry of Materials</i> , 2019 , 31, 4133-4147	9.6	27
141	In Situ Back-Contact Passivation Improves Photovoltage and Fill Factor in Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1807435	24	112
140	Reply to: Triplet-triplet annihilation in rubrene/C ₆₀ OLEDs with electroluminescence turn-on breaking the thermodynamic limit. <i>Nature Communications</i> , 2019 , 10, 4684	17.4	3
139	Efficient upgrading of CO to C fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019 , 10, 5186	17.4	55
138	Blade Coating Aligned, High-Performance, Semiconducting-Polymer Transistors. <i>Chemistry of Materials</i> , 2018 , 30, 1924-1936	9.6	43
137	SEIRAS Study of Chloride-Mediated Polyether Adsorption on Cu. <i>Journal of Physical Chemistry C</i> , 2018 , 122,	3.8	1
136	A simple and robust approach to reducing contact resistance in organic transistors. <i>Nature Communications</i> , 2018 , 9, 5130	17.4	72
135	SEIRAS Study of Chloride-Mediated Polyether Adsorption on Cu. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21933-21951	3.8	29
134	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> , 2017 , 29, 2283-2293	9.6	17
133	Morphology Development in Solution-Processed Functional Organic Blend Films: An In Situ Viewpoint. <i>Chemical Reviews</i> , 2017 , 117, 6332-6366	68.1	122
132	Morphological characterization of fullerene and fullerene-free organic photovoltaics by combined real and reciprocal space techniques. <i>Journal of Materials Research</i> , 2017 , 32, 1921-1934	2.5	18
131	Reduced Bimolecular Recombination in Blade-Coated, High-Efficiency, Small-Molecule Solar Cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6893-6904	13	12

130	Simple transfer from spin coating to blade coating through processing aggregated solutions. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20687-20695	13	14
129	Film morphology evolution during solvent vapor annealing of highly efficient small molecule donor/acceptor blends. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15511-15521	13	30
128	Morphology Changes Upon Scaling a High-Efficiency, Solution-Processed Solar Cell From Spin-Coating to Roll-to-Roll Coating. <i>Energy and Environmental Science</i> , 2016 , 9,	35.4	1
127	The Structural Origin of Electron Injection Enhancements with Fulleropyrrolidine Interlayers. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500852	4.6	9
126	Real-Time Photoluminescence Studies of Structure Evolution in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1502011	21.8	20
125	Morphology changes upon scaling a high-efficiency, solution-processed solar cell. <i>Energy and Environmental Science</i> , 2016 , 9, 2835-2846	35.4	152
124	Direct Correlation of Charge Transfer Absorption with Molecular Donor:Acceptor Interfacial Area via Photothermal Deflection Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5256-9	16.4	36
123	Effect of Solution Shearing Method on Packing and Disorder of Organic Semiconductor Polymers. <i>Chemistry of Materials</i> , 2015 , 27, 2350-2359	9.6	81
122	Dithiol-based modification of poly(dopamine): enabling protein resistance via short-chain ethylene oxide oligomers. <i>Chemical Communications</i> , 2015 , 51, 6591-4	5.8	18
121	Volume Expansion Caused by Water Penetration into Silica Glass. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 78-87	3.8	37
120	Poly(sulfobetaine methacrylate)s as electrode modifiers for inverted organic electronics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 540-9	16.4	53
119	In Situ Morphology Studies of the Mechanism for Solution Additive Effects on the Formation of Bulk Heterojunction Films. <i>Advanced Energy Materials</i> , 2015 , 5, 1400975	21.8	94
118	Classification of semiconducting polymeric mesophases to optimize device postprocessing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1641-1653	2.6	19
117	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> , 2015 , 3, 8764-8771	13	39
116	In Situ Characterization of Polymer Fullerene Bilayer Stability. <i>Macromolecules</i> , 2015 , 48, 383-392	5.5	103
115	Morphological Origin of Charge Transport Anisotropy in Aligned Polythiophene Thin Films. <i>Advanced Functional Materials</i> , 2014 , 24, 3422-3431	15.6	66
114	Advanced Ellipsometric Characterization of Conjugated Polymer Films. <i>Advanced Functional Materials</i> , 2014 , 24, 2116-2134	15.6	68
113	Attachment of a diruthenium compound to Au and SiO ₂ /Si surfaces by "click" chemistry. <i>Langmuir</i> , 2014 , 30, 10280-9	4	17

112	Probing Charge Recombination Dynamics in Organic Photovoltaic Devices under Open-Circuit Conditions. <i>Advanced Energy Materials</i> , 2014 , 4, 1400356	21.8	24
111	Molecular origin of high field-effect mobility in an indacenodithiophene-benzothiadiazole copolymer. <i>Nature Communications</i> , 2013 , 4, 2238	17.4	384
110	Effect of Processing Additives on the Solidification of Blade-Coated Polymer/Fullerene Blend Films via In-Situ Structure Measurements. <i>Advanced Energy Materials</i> , 2013 , 3, 938-948	21.8	89
109	Nonlinear Vibrational Spectroscopy. <i>Springer Series in Surface Sciences</i> , 2013 , 137-161	0.4	
108	Correlating Stiffness, Ductility, and Morphology of Polymer:Fullerene Films for Solar Cell Applications. <i>Advanced Energy Materials</i> , 2013 , 3, 399-406	21.8	113
107	Vertically Segregated Structure and Properties of Small Molecule Polymer Blend Semiconductors for Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2013 , 23, 366-376	15.6	97
106	Surface plasmon polariton Raman microscopy. <i>Vibrational Spectroscopy</i> , 2012 , 60, 85-91	2.1	5
105	Immobilization of streptavidin on 4HβC for biosensor development. <i>Applied Surface Science</i> , 2012 , 258, 6056-6063	6.7	82
104	Use of X-ray diffraction, molecular simulations, and spectroscopy to determine the molecular packing in a polymer-fullerene bimolecular crystal. <i>Advanced Materials</i> , 2012 , 24, 6071-9	24	113
103	Molecular packing of high-mobility diketo pyrrolo-pyrrole polymer semiconductors with branched alkyl side chains. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15073-84	16.4	353
102	The NIST EUV facility for advanced photoresist qualification using the witness-sample test 2011 ,		4
101	Molecular order in high-efficiency polymer/fullerene bulk heterojunction solar cells. <i>ACS Nano</i> , 2011 , 5, 8248-57	16.7	243
100	Anisotropic Structure and Charge Transport in Highly Strain-Aligned Regioregular Poly(3-hexylthiophene). <i>Advanced Functional Materials</i> , 2011 , 21, 3697-3705	15.6	253
99	Molecular characterization of organic electronic films. <i>Advanced Materials</i> , 2011 , 23, 319-37	24	190
98	Controlling the Microstructure of Solution-Processable Small Molecules in Thin-Film Transistors through Substrate Chemistry. <i>Chemistry of Materials</i> , 2011 , 23, 1194-1203	9.6	57
97	Influence of substrate on crystallization in polythiophene/fullerene blends. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1375-1381	6.4	42
96	A synchrotron beamline for extreme-ultraviolet photoresist testing. <i>Review of Scientific Instruments</i> , 2011 , 82, 073102	1.7	5
95	Optics contamination studies in support of high-throughput EUV lithography tools 2011 ,		7

94	High performance airbrushed organic thin film transistors. <i>Applied Physics Letters</i> , 2010 , 96, 133304	3.4	52
93	Interfacial Segregation in Polymer/Fullerene Blend Films for Photovoltaic Devices. <i>Macromolecules</i> , 2010 , 43, 3828-3836	5.5	177
92	Correlations between mechanical and electrical properties of polythiophenes. <i>ACS Nano</i> , 2010 , 4, 7538-46.7	46.7	178
91	Origin of nanoscale variations in photoresponse of an organic solar cell. <i>Nano Letters</i> , 2010 , 10, 1611-7	11.5	53
90	3D Nanoscale Characterization of Thin-Film Organic Photovoltaic Device Structures via Spectroscopic Contrast in the TEM 1. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17501-17508	3.8	110
89	Complex species and pressure dependence of intensity scaling laws for contamination rates of EUV optics determined by XPS and ellipsometry 2010 ,		8
88	Characterization of SiGe films for use as a National Institute of Standards and Technology Microanalysis Reference Material (RM 8905). <i>Microscopy and Microanalysis</i> , 2010 , 16, 1-12	0.5	10
87	Three Dimensionally Structured CdTe Thin-Film Photovoltaic Devices with Self-Aligned Back-Contacts: Electrodeposition on Interdigitated Electrodes. <i>Journal of the Electrochemical Society</i> , 2009 , 156, H654	3.9	8
86	Substrate-dependent interface composition and charge transport in films for organic photovoltaics. <i>Applied Physics Letters</i> , 2009 , 94, 233303	3.4	193
85	Semiconducting Thienothiophene Copolymers: Design, Synthesis, Morphology, and Performance in Thin-Film Organic Transistors. <i>Advanced Materials</i> , 2009 , 21, 1091-1109	24	382
84	Formation of silicon-based molecular electronic structures using flip-chip lamination. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12451-7	16.4	47
83	Controlling the orientation of terraced nanoscale "ribbons" of a poly(thiophene) semiconductor. <i>ACS Nano</i> , 2009 , 3, 780-7	16.7	145
82	In situ measurement of annealing-induced line shape evolution in nanoimprinted polymers using scatterometry 2009 ,		8
81	Thin Film Elastic Modulus of Degradable Tyrosine-Derived Polycarbonate Biomaterials and Their Blends. <i>Macromolecules</i> , 2009 , 42, 1212-1218	5.5	13
80	Contact-induced crystallinity for high-performance soluble acene-based transistors and circuits. <i>Nature Materials</i> , 2008 , 7, 216-21	27	421
79	Molecular Basis of Mesophase Ordering in a Thiophene-Based Copolymer. <i>Macromolecules</i> , 2008 , 41, 5709-5715	5.5	97
78	Demonstration of molecular assembly on Si (100) for CMOS-compatible molecule-based electronic devices. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4259-61	16.4	29
77	Thin Film Microstructure of a Solution Processable Pyrene-Based Organic Semiconductor. <i>Chemistry of Materials</i> , 2008 , 20, 5743-5749	9.6	44

76	Scatterometry for in situ measurement of pattern reflow in nanoimprinted polymers. <i>Applied Physics Letters</i> , 2008 , 93, 233105	3.4	22
75	Origin of Differing Reactivities of Aliphatic Chains on HSi(111) and Oxide Surfaces with Metal. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9384-9392	3.8	32
74	Potential Dependence of Competitive Adsorption of PEG, Cl ⁺ and SPS/MPS on Cu. <i>Journal of the Electrochemical Society</i> , 2007 , 154, D277	3.9	45
73	Measuring molecular order in poly(3-alkylthiophene) thin films with polarizing spectroscopies. <i>Langmuir</i> , 2007 , 23, 834-42	4	203
72	Characterization and control of lipid layer fluidity in hybrid bilayer membranes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2094-100	16.4	37
71	High Carrier Mobility Polythiophene Thin Films: Structure Determination by Experiment and Theory. <i>Advanced Materials</i> , 2007 , 19, 833-837	24	254
70	Critical Role of Side-Chain Attachment Density on the Order and Device Performance of Polythiophenes. <i>Macromolecules</i> , 2007 , 40, 7960-7965	5.5	297
69	Distinguishing between nonlinear channel transport and contact effects in organic FETs 2007 ,		3
68	Dielectric response of aligned semiconducting single-wall nanotubes. <i>Physical Review Letters</i> , 2007 , 98, 147402	7.4	69
67	Interface characterization of molecular-monolayer/SiO ₂ based molecular junctions. <i>Solid-State Electronics</i> , 2006 , 50, 1088-1096	1.7	17
66	An In Situ Ellipsometric Study of Cl ⁺ Induced Adsorption of PEG on Ru and on Underpotential Deposited Cu on Ru. <i>Journal of the Electrochemical Society</i> , 2006 , 153, C235	3.9	20
65	Competitive Adsorption of PEG, Cl ⁺ and SPS/MPS on Cu: An In Situ Ellipsometric Study. <i>Journal of the Electrochemical Society</i> , 2006 , 153, C557	3.9	47
64	Determination of lipid phase transition temperatures in hybrid bilayer membranes. <i>Langmuir</i> , 2006 , 22, 8333-6	4	23
63	Alkanethiols on platinum: multicomponent self-assembled monolayers. <i>Langmuir</i> , 2006 , 22, 2578-87	4	104
62	Broadband coherent anti-Stokes Raman spectroscopy characterization of polymer thin films. <i>Applied Spectroscopy</i> , 2006 , 60, 1097-102	3.1	8
61	Comparison of Si-O-C interfacial bonding of alcohols and aldehydes on Si(111) formed from dilute solution with ultraviolet irradiation. <i>Langmuir</i> , 2005 , 21, 882-9	4	76
60	Optical properties of coupled metallic nanorods for field-enhanced spectroscopy. <i>Physical Review B</i> , 2005 , 71,	3.3	472
59	Variations in Semiconducting Polymer Microstructure and Hole Mobility with Spin-Coating Speed. <i>Chemistry of Materials</i> , 2005 , 17, 5610-5612	9.6	197

58	Electrical and spectroscopic characterization of metal/monolayer/Si devices. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21836-41	3.4	51
57	IR Spectroscopic Characterization of the Buried Metal Interface of Metal-Molecule-Silicon Vertical Diodes. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
56	In Situ Ellipsometric Study of PEG ₄ Adsorption on Cu, Ag, and Au. <i>Journal of the Electrochemical Society</i> , 2005 , 152, C403	3.9	67
55	Molecular devices formed by direct monolayer attachment to silicon. <i>Solid-State Electronics</i> , 2004 , 48, 1747-1752	1.7	20
54	Optical Characterization of Oligo(phenylene-ethynylene) Self-Assembled Monolayers on Gold. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12547-12559	3.4	58
53	Structure of Polystyrene at the Interface with Various Liquids. <i>Macromolecules</i> , 2004 , 37, 7742-7746	5.5	38
52	Template Fabrication of Protein-Functionalized Gold-Polypyrrole-Gold Segmented Nanowires. <i>Chemistry of Materials</i> , 2004 , 16, 3431-3438	9.6	90
51	Structural and chemical characterization of monofluoro-substituted oligo(phenylene-ethynylene) thiolate self-assembled monolayers on gold. <i>Langmuir</i> , 2004 , 20, 6195-205	4	34
50	Correlation of molecular orientation with adhesion at polystyrene/solid interfaces. <i>Chemical Physics Letters</i> , 2002 , 363, 161-168	2.5	55
49	Selective study of polymer/dielectric interfaces with vibrationally resonant sum frequency generation via thin-film interference. <i>Applied Physics Letters</i> , 2002 , 80, 3084-3086	3.4	59
48	In Situ, Vibrationally Resonant Sum Frequency Spectroscopy Study of the Self-Assembly of Dioctadecyl Disulfide on Gold. <i>Langmuir</i> , 2002 , 18, 7549-7556	4	43
47	Imaging and autocorrelation of ultrafast infrared laser pulses in the 3-11- μ m range with silicon CCD cameras and photodiodes. <i>Optics Letters</i> , 2001 , 26, 238-40	3	14
46	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> , 2001 , 18, 704	1.8	18
45	Absolute Molecular Orientational Distribution of the Polystyrene Surface. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2785-2791	3.4	171
44	Assessment of sensitivity advances in near-field Raman spectroscopy 2000 ,		1
43	Chemical imaging with scanning near-field infrared microscopy and spectroscopy 2000 ,		2
42	Scanning near-field infrared microscopy and spectroscopy with a broadband laser source. <i>Journal of Applied Physics</i> , 2000 , 88, 4832	2.5	41
41	Removing optical artifacts in near-field scanning optical microscopy by using a three-dimensional scanning mode. <i>Journal of Applied Physics</i> , 1999 , 86, 2785-2789	2.5	19

40	Near-field scanning optical microscopy incorporating Raman scattering for vibrational mode contrast. <i>Surface Science</i> , 1999 , 433-435, 48-52	1.8	12
39	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> , 1999 , 16, 1936	1.8	7
38	Nonlinear optics as a detection scheme for biomimetic sensors: SFG spectroscopy of hybrid bilayer membrane formation 1999 ,		13
37	Vibrationally resolved sum-frequency generation with broad-bandwidth infrared pulses. <i>Optics Letters</i> , 1998 , 23, 1594-6	3	297
36	High efficiency, dual collection mode near-field scanning optical microscope. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 1948		16
35	Depletion-electric-field-induced second-harmonic generation near oxidized GaAs(001) surfaces. <i>Physical Review B</i> , 1997 , 55, 10694-10706	3.3	44
34	Femtosecond Laser-Induced Desorption of CO from Cu(100): Comparison of Theory and Experiment. <i>Physical Review Letters</i> , 1996 , 77, 4576-4579	7.4	93
33	Photodecomposition of Mo(CO) ₆ /Si(111) 7 \times 7: CO state-resolved evidence for excited state relaxation and quenching. <i>Journal of Chemical Physics</i> , 1994 , 101, 2929-2939	3.9	6
32	Adsorption and photodecomposition of Mo(CO) ₆ on Si(111) 7 \times 7: An infrared reflection absorption spectroscopy study. <i>Journal of Chemical Physics</i> , 1994 , 100, 3187-3200	3.9	14
31	Photodesorption dynamics of CO from Si (111): the role of surface defects. <i>Surface Science</i> , 1994 , 321, 127-132	1.8	4
30	Photodecomposition dynamics of Mo(CO) ₆ /Si(111) 7 \times 7: CO internal state and translational energy distributions. <i>Journal of Chemical Physics</i> , 1993 , 98, 7651-7654	3.9	8
29	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> , 1992 , 96, 2324-2338	3.9	43
28	Mechanistic studies of photoinduced reactions at semiconductor surfaces. <i>Progress in Surface Science</i> , 1992 , 39, 155-226	6.6	59
27	Constraints on the use of polarization and angle-of-incidence to characterize surface photoreactions. <i>Chemical Physics Letters</i> , 1991 , 186, 423-426	2.5	29
26	Photodissociation dynamics of Mo(CO) ₆ at 266 and 355 nm: CO photofragment kinetic-energy and internal-state distributions. <i>Journal of Chemical Physics</i> , 1991 , 94, 7937-7950	3.9	15
25	Laser-induced desorption of NO from Si(111): effects of coverage on NO vibrational populations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990 , 54-55, 181-190	1.7	17
24	Surface-state-mediated photochemistry: Laser-induced desorption of NO from Si(111). <i>Physical Review Letters</i> , 1990 , 65, 1957-1960	7.4	36
23	Laser-excited hot-electron induced desorption: A theoretical model applied to NO/Pt(111). <i>Surface Science</i> , 1990 , 235, 317-333	1.8	265

22	State-resolved evidence for hot carrier driven surface reactions: Laser-induced desorption of NO from Pt(111). <i>Journal of Chemical Physics</i> , 1989 , 91, 6429-6446	3.9	194
21	CO adsorption site occupations on Fe(111) vs coverage and temperature: The kinetics of adsorption and reaction. <i>Journal of Chemical Physics</i> , 1989 , 90, 2050-2062	3.9	31
20	Improved multidetector for time-resolved electron energy loss spectroscopy. <i>Review of Scientific Instruments</i> , 1989 , 60, 12-16	1.7	20
19	Coadsorption-induced site changes: Bridging hydrogen from CO and H on Rh(100). <i>Surface Science</i> , 1988 , 195, L182-L192	1.8	35
18	Optically driven surface reactions: Evidence for the role of hot electrons. <i>Physical Review Letters</i> , 1988 , 61, 1321-1324	7.4	159
17	Non-Boltzmann rotational and inverted spin-orbit state distributions for laser-induced desorption of NO from Pt(111). <i>Journal of Chemical Physics</i> , 1988 , 89, 5344-5345	3.9	41
16	Electron-energy-loss spectroscopy of H adsorbed on Rh(100): Interpretation of overtone spectra as two-phonon bound states. <i>Physical Review B</i> , 1988 , 38, 10403-10420	3.3	36
15	Multidetector electron energy-loss spectrometer for time-resolved surface studies. <i>Review of Scientific Instruments</i> , 1988 , 59, 22-44	1.7	40
14	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> , 1987 , 5, 453-454	2.9	31
13	Vibrational spectroscopy of H on Pt(111): Evidence for universally soft parallel modes. <i>Physical Review B</i> , 1987 , 36, 9797-9800	3.3	65
12	Summary Abstract: The kinetics of CO dissociation on Fe(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 538-539	2.9	6
11	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> , 1987 , 87, 6710-6721	3.9	73
10	The influence of adsorbate-adsorbate interactions on surface structure: The coadsorption of CO and H ₂ on Rh(100). <i>Journal of Chemical Physics</i> , 1987 , 86, 477-490	3.9	62
9	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> , 1986 , 4, 1487-1490	2.9	38
8	Position-sensitive detector performance and relevance to time-resolved electron energy loss spectroscopy. <i>Review of Scientific Instruments</i> , 1986 , 57, 1469-1482	1.7	58
7	Kinetics of unimolecular decomposition on surfaces: Methanol on Ni(110). <i>Journal of Chemical Physics</i> , 1985 , 83, 2569-2582	3.9	44
6	Reactive adsorption of H ₂ CO on Ni(110) at 95 K. <i>Journal of Chemical Physics</i> , 1985 , 83, 2165-2169	3.9	35
5	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> , 1985 , 3, 1549-1553	2.9	22

4	Versatile temperature controller for the investigation of surface phenomena. <i>Review of Scientific Instruments</i> , 1984 , 55, 732-736	1.7	27
3	Temperature programmed electron energy loss spectroscopy: Kinetics of CH ₃ OH decomposition on Ni(110). <i>Chemical Physics Letters</i> , 1984 , 111, 185-189	2.5	33
2	Proton NMR study of the orientation and motion of H ₂ O in Na ⁺ alumina. <i>Journal of Chemical Physics</i> , 1982 , 76, 6-9	3.9	6
1	Proton NMR of H ₂ O in single crystal Li ⁺ and mixed ⁺ aluminas. <i>Solid State Ionics</i> , 1981 , 5, 229-231	3.3	5