

Richard L McCreery

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.

247
papers

19,328
citations

72
h-index

132
g-index

261
ext. papers

20,587
ext. citations

7.7
avg, IF

7.25
L-index

#	Paper	IF	Citations
247	Hot hole transfer from Ag nanoparticles to multiferroic YMn ₂ O ₅ nanowires enables superior photocatalytic activity. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4128-4139	7.1	0
246	Carbon Electrodes: Structural Effects on Electron Transfer Kinetics 2021 , 221-374		17
245	Evaluation of Carbon Based Molecular Junctions as Practical Photosensors. <i>ACS Sensors</i> , 2021 , 6, 513-523	2.2	5
244	Solid-State Protein Junctions: Cross-Laboratory Study Shows Preservation of Mechanism at Varying Electronic Coupling. <i>iScience</i> , 2020 , 23, 101099	6.1	19
243	Evaluation of the electroanalytical performance of carbon-on-gold films prepared by electron-beam evaporation. <i>Analyst, The</i> , 2020 , 145, 5041-5052	5	1
242	Ion-Assisted Resonant Injection and Charge Storage in Carbon-Based Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11658-11662	16.4	13
241	Redox Flow Batteries: How to Determine Electrochemical Kinetic Parameters. <i>ACS Nano</i> , 2020 , 14, 2575-2584	16.4	38
240	Large Capacity Enhancement of Carbon Electrodes by Solution Processing for High Density Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10211-10223	9.5	7
239	Introducing mesoscopic charge transfer rates into molecular electronics. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 10828-10832	3.6	11
238	Electrostatic Redox Reactions and Charge Storage in Molecular Electronic Junctions. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1739-1748	3.8	5
237	Photostimulated Near-Resonant Charge Transport over 60 nm in Carbon-Based Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15420-15430	16.4	5
236	Comment on "Extent of conjugation in diazonium-derived layers in molecular junction devices determined by experiment and modelling" by C. Van Dyck, A. J. Bergren, V. Mukundan, J. A. Fereiro and G. A. DiLabio, , 2019, , 16762. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 21543-21546	3.6	0
235	Molecular Signature and Activationless Transport in Cobalt-Terpyridine-Based Molecular Junctions. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901416	6.4	16
234	Hubbard Nonequilibrium Green's Function Analysis of Photocurrent in Nitroazobenzene Molecular Junction. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1550-1557	6.4	6
233	Light-Stimulated Charge Transport in Bilayer Molecular Junctions for Photodetection. <i>Advanced Optical Materials</i> , 2019 , 7, 1901053	8.1	13
232	Unipolar Injection and Bipolar Transport in Electroluminescent Ru-Centered Molecular Electronic Junctions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29162-29172	3.8	7
231	Hole free phase plate tomography for materials sciences samples. <i>Micron</i> , 2019 , 116, 54-60	2.3	6

230	Long-Range Activationless Photostimulated Charge Transport in Symmetric Molecular Junctions. <i>ACS Nano</i> , 2019 , 13, 867-877	16.7	19
229	Photocurrent, Photovoltage, and Rectification in Large-Area Bilayer Molecular Electronic Junctions. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800093	6.4	12
228	Bottom-up, Robust Graphene Ribbon Electronics in All-Carbon Molecular Junctions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6090-6095	9.5	18
227	Orbital Control of Photocurrents in Large Area All-Carbon Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1900-1909	16.4	22
226	Nanometric building blocks for robust multifunctional molecular junctions. <i>Nanoscale Horizons</i> , 2018 , 3, 45-52	10.8	17
225	Self-Inhibitory Electron Transfer of the Co(III)/Co(II)-Complex Redox Couple at Pristine Carbon Electrode. <i>Analytical Chemistry</i> , 2018 , 90, 11115-11123	7.8	14
224	Orbital Control of Long-Range Transport in Conjugated and Metal-Centered Molecular Electronic Junctions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29028-29038	3.8	11
223	Hole Free Phase Plate Electron Tomography in Material Sciences. <i>Microscopy and Microanalysis</i> , 2018 , 24, 2224-2225	0.5	1
222	Hybrid Graphene Ribbon/Carbon Electrodes for High-Performance Energy Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1802439	21.8	17
221	Internal Electric Field Modulation in Molecular Electronic Devices by Atmosphere and Mobile Ions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7239-7247	16.4	20
220	Structure Controlled Long-Range Sequential Tunneling in Carbon-Based Molecular Junctions. <i>ACS Nano</i> , 2017 , 11, 3542-3552	16.7	27
219	Characterization of Growth Patterns of Nanoscale Organic Films on Carbon Electrodes by Surface Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2017 , 89, 6463-6471	7.8	19
218	Robust Bipolar Light Emission and Charge Transport in Symmetric Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7436-7439	16.4	41
217	Control of Rectification in Molecular Junctions: Contact Effects and Molecular Signature. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11913-11922	16.4	48
216	Ultraflat, Pristine, and Robust Carbon Electrode for Fast Electron-Transfer Kinetics. <i>Analytical Chemistry</i> , 2017 , 89, 13532-13540	7.8	18
215	Control of Electronic Symmetry and Rectification through Energy Level Variations in Bilayer Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12287-96	16.4	57
214	Robust All-Carbon Molecular Junctions on Flexible or Semi-Transparent Substrates Using "Process-Friendly" Fabrication. <i>ACS Nano</i> , 2016 , 10, 8918-28	16.7	47
213	Musical molecules: the molecular junction as an active component in audio distortion circuits. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 094011	1.8	38

212	Light Emission as a Probe of Energy Losses in Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 722-5	16.4	27
211	Effects of electronic coupling and electrostatic potential on charge transport in carbon-based molecular electronic junctions. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 32-46	3	15
210	Monitoring of Energy Conservation and Losses in Molecular Junctions through Characterization of Light Emission. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600351	6.4	18
209	Theoretical Modeling of Tunneling Barriers in Carbon-Based Molecular Electronic Junctions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11286-11295	3.8	9
208	Internal photoemission in molecular junctions: parameters for interfacial barrier determinations. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1296-304	16.4	29
207	The many faces of carbon in electrochemistry: general discussion. <i>Faraday Discussions</i> , 2014 , 172, 117-373.6	4	
206	Carbon electrodes for energy storage: general discussion. <i>Faraday Discussions</i> , 2014 , 172, 239-60	3.6	9
205	Electron transport in all-carbon molecular electronic devices. <i>Faraday Discussions</i> , 2014 , 172, 9-25	3.6	25
204	Proton Transport Property in Supported Nafion Nanothin Films by Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1395-F1402	3.9	122
203	Ion Transport and Switching Speed in Redox-Gated 3-Terminal Organic Memory Devices. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H831-H838	3.9	18
202	Role of surface contaminants, functionalities, defects and electronic structure: general discussion. <i>Faraday Discussions</i> , 2014 , 172, 365-95	3.6	1
201	Bilayer molecular electronics: all-carbon electronic junctions containing molecular bilayers made with "click" chemistry. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12972-5	16.4	56
200	Direct observation of large quantum interference effect in anthraquinone solid-state junctions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10218-21	16.4	64
199	Direct spectroscopic monitoring of conductance switching in polythiophene memory devices. <i>Electrochimica Acta</i> , 2013 , 110, 437-445	6.7	12
198	A critical perspective on molecular electronic junctions: there is plenty of room in the middle. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1065-81	3.6	122
197	Direct optical determination of interfacial transport barriers in molecular tunnel junctions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9584-7	16.4	41
196	Redox-gated three-terminal organic memory devices: effect of composition and environment on performance. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11052-8	9.5	34
195	Activationless charge transport across 4.5 to 22 nm in molecular electronic junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5326-30	11.5	128

194	Comment on electrochemical kinetics at ordered graphite electrodes. <i>Analytical Chemistry</i> , 2012 , 84, 2602-5	7.8	117
193	Solid state spectroelectrochemistry of redox reactions in polypyrrole/oxide molecular heterojunctions. <i>Analytical Chemistry</i> , 2012 , 84, 2459-65	7.8	22
192	Surface Functionalization in the Nanoscale Domain 2012 , 163-190		7
191	Diazonium Compounds in Molecular Electronics 2012 , 219-239		6
190	Spatially resolved Raman spectroelectrochemistry of solid-state polythiophene/viologen memory devices. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14869-76	16.4	98
189	The merger of electrochemistry and molecular electronics. <i>Chemical Record</i> , 2012 , 12, 149-63	6.6	24
188	Charge transport in molecular electronic junctions: compression of the molecular tunnel barrier in the strong coupling regime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11498-503	11.5	115
187	Analytical chemistry in molecular electronics. <i>Annual Review of Analytical Chemistry</i> , 2011 , 4, 173-95	12.5	27
186	Thermal oxidation as a simple method to increase resolution in nanoimprint lithography. <i>Microelectronic Engineering</i> , 2011 , 88, 3256-3260	2.5	2
185	Redox driven conductance changes for resistive memory. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 841-850	2.6	37
184	Towards Integrated Molecular Electronic Devices: Characterization of Molecular Layer Integrity During Fabrication Processes. <i>Advanced Functional Materials</i> , 2011 , 21, 2273-2281	15.6	31
183	Assembling molecular electronic junctions one molecule at a time. <i>Nano Letters</i> , 2011 , 11, 4725-9	11.5	28
182	All-carbon molecular tunnel junctions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19168-77	16.4	86
181	Electron-beam evaporated silicon as a top contact for molecular electronic device fabrication. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14318-24	3.6	19
180	'Soft' Au, Pt and Cu contacts for molecular junctions through surface-diffusion-mediated deposition. <i>Nature Nanotechnology</i> , 2010 , 5, 612-7	28.7	115
179	Electronic Characteristics and Charge Transport Mechanisms for Large Area Aromatic Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15806-15815	3.8	73
178	Microfabrication and integration of diazonium-based aromatic molecular junctions. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3693-701	9.5	39
177	Solid-State Electrochemistry in Molecule/TiO ₂ Molecular Heterojunctions as the Basis of the TiO ₂ Memristor. <i>Journal of the Electrochemical Society</i> , 2009 , 156, P29	3.9	75

176	Progress with molecular electronic junctions: meeting experimental challenges in design and fabrication. <i>Advanced Materials</i> , 2009 , 21, 4303-22	24	321
175	Electron transport and redox reactions in molecular electronic junctions. <i>ChemPhysChem</i> , 2009 , 10, 2387-91	321	18
174	Anomalous tunneling in carbon/alkane/TiO(2)/gold molecular electronic junctions: energy level alignment at the metal/semiconductor interface. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 443-51	49.5	17
173	Derivatization of optically transparent materials with diazonium reagents for spectroscopy of buried interfaces. <i>Analytical Chemistry</i> , 2009 , 81, 6972-80	7.8	34
172	Optical interference effects in the design of substrates for surface-enhanced Raman spectroscopy. <i>Applied Spectroscopy</i> , 2009 , 63, 133-40	3.1	54
171	Advanced carbon electrode materials for molecular electrochemistry. <i>Chemical Reviews</i> , 2008 , 108, 2646-87	1984	
170	In-Situ Optical Absorbance Spectroscopy of Molecular Layers in Carbon Based Molecular Electronic Devices. <i>Chemistry of Materials</i> , 2008 , 20, 3849-3856	9.6	22
169	Conducting polymer memory devices based on dynamic doping. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11073-81	16.4	78
168	Molecular electronics using diazonium-derived adlayers on carbon with Cu top contacts: critical analysis of metal oxides and filaments. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 374117	1.8	30
167	In situ Raman spectroelectrochemistry of azobenzene monolayers on glassy carbon. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 131-4	4.4	15
166	Electronic characteristics of fluorene/TiO ₂ molecular heterojunctions. <i>Journal of Chemical Physics</i> , 2007 , 126, 024704	3.9	40
165	Normal and surface-enhanced Raman spectroscopy of nitroazobenzene submonolayers and multilayers on carbon and silver surfaces. <i>Applied Spectroscopy</i> , 2007 , 61, 613-20	3.1	17
164	Ultraviolet-visible spectroelectrochemistry of chemisorbed molecular layers on optically transparent carbon electrodes. <i>Applied Spectroscopy</i> , 2007 , 61, 1246-53	3.1	29
163	Determination of the structure and orientation of organic molecules tethered to flat graphitic carbon by ATR-FT-IR and Raman spectroscopy. <i>Analytical Chemistry</i> , 2006 , 78, 3104-12	7.8	90
162	Carbon/molecule/metal molecular electronic junctions: the importance of "contacts". <i>Faraday Discussions</i> , 2006 , 131, 33-43; discussion 91-109	3.6	42
161	Analytical challenges in molecular electronics. <i>Analytical Chemistry</i> , 2006 , 78, 3490-7	7.8	43
160	Electron transport and redox reactions in carbon-based molecular electronic junctions. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 2572-90	3.6	71
159	Redox-driven conductance switching via filament formation and dissolution in carbon/molecule/TiO ₂ /Ag molecular electronic junctions. <i>Langmuir</i> , 2006 , 22, 10689-96	4	51

158	Photometric Standards for Raman Spectroscopy 2006 ,		8
157	Strong effects of molecular structure on electron transport in carbon/molecule/copper electronic junctions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11163-72	3.4	59
156	Carbon/Molecule/Metal and Carbon/Molecule/Metal Oxide Molecular Electronic Junctions. <i>Chemistry of Materials</i> , 2005 , 17, 4939-4948	9.6	40
155	Covalent bonding of alkene and alkyne reagents to graphitic carbon surfaces. <i>Langmuir</i> , 2005 , 21, 11105-12	4.12	33
154	Importance of Oxides in Carbon/Molecule/Metal Molecular Junctions with Titanium and Copper Top Contacts. <i>Journal of the Electrochemical Society</i> , 2005 , 152, E176	3.9	34
153	Ultraflat carbon film electrodes prepared by electron beam evaporation. <i>Analytical Chemistry</i> , 2004 , 76, 2544-52	7.8	52
152	In situ Raman spectroscopy of bias-induced structural changes in nitroazobenzene molecular electronic junctions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16621-31	16.4	97
151	Characterization of carbon/nitroazobenzene/titanium molecular electronic junctions with photoelectron and Raman spectroscopy. <i>Analytical Chemistry</i> , 2004 , 76, 1089-97	7.8	89
150	Covalent Bonding of Organic Molecules to Cu and Al Alloy 2024 T3 Surfaces via Diazonium Ion Reduction. <i>Journal of the Electrochemical Society</i> , 2004 , 151, B252	3.9	207
149	Raman microscopy of chromate interactions with corroding aluminum alloy 2024-T3. <i>Corrosion Science</i> , 2004 , 46, 1729-1739	6.8	20
148	Molecular Electronic Junctions. <i>Chemistry of Materials</i> , 2004 , 16, 4477-4496	9.6	495
147	Carbon-Based Molecular Electronic Junctions. <i>Electrochemical Society Interface</i> , 2004 , 13, 46-51	3.6	26
146	Storage and Release of Soluble Hexavalent Chromium from Chromate Conversion Coatings on Al Alloys: Kinetics of Release. <i>Journal of the Electrochemical Society</i> , 2003 , 150, B83	3.9	41
145	Influence of oxygen on luminescence and vibrational spectra of Mg-doped GaN. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 240, 356-359	1.3	5
144	Mono- and multilayer formation by diazonium reduction on carbon surfaces monitored with atomic force microscopy "scratching". <i>Analytical Chemistry</i> , 2003 , 75, 3837-44	7.8	316
143	Performance of pyrolyzed photoresist carbon films in a microchip capillary electrophoresis device with sinusoidal voltammetric detection. <i>Analytical Chemistry</i> , 2003 , 75, 4265-71	7.8	67
142	Molecular rectification and conductance switching in carbon-based molecular junctions by structural rearrangement accompanying electron injection. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10748-58	16.4	150
141	Modified carbon surfaces as "organic electrodes" that exhibit conductance switching. <i>Analytical Chemistry</i> , 2003 , 75, 296-305	7.8	115

140	Raman Spectroscopy of Monolayers Formed from Chromate Corrosion Inhibitor on Copper Surfaces. <i>Journal of the Electrochemical Society</i> , 2003 , 150, B367	3.9	47
139	Inhibition of Corrosion-Related Reduction Processes via Chromium Monolayer Formation. <i>Journal of the Electrochemical Society</i> , 2002 , 149, B379	3.9	54
138	Electronic Conductance Behavior of Carbon-Based Molecular Junctions with Conjugated Structures. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10355-10362	3.4	95
137	A Galvanic Corrosion Approach to Investigating Chromate Effects on Aluminum Alloy 2024-T3. <i>Journal of the Electrochemical Society</i> , 2002 , 149, B179	3.9	97
136	In situ raman spectroelectrochemistry of electron transfer between glassy carbon and a chemisorbed nitroazobenzene monolayer. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10894-9026	16.4	97
135	A Mechanism for Conductance Switching in Carbon-Based Molecular Electronic Junctions. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, E43		91
134	Effects of chromate and chromate conversion coatings on corrosion of aluminum alloy 2024-T3. <i>Surface and Coatings Technology</i> , 2001 , 140, 51-57	4.4	193
133	Performance Comparisons of Conventional and Line-Focused Surface Raman Spectrometers. <i>Applied Spectroscopy</i> , 2001 , 55, 767-773	3.1	29
132	Raman spectroscopic analysis of the speciation of dilute chromate solutions. <i>Corrosion Science</i> , 2001 , 43, 1557-1572	6.8	78
131	Covalently Bonded Organic Monolayers on a Carbon Substrate: A New Paradigm for Molecular Electronics. <i>Nano Letters</i> , 2001 , 1, 491-494	11.5	118
130	Electroanalytical performance of carbon films with near-atomic flatness. <i>Analytical Chemistry</i> , 2001 , 73, 893-900	7.8	219
129	2000 ,		537
128	Photoresist-Derived Carbon for Microelectromechanical Systems and Electrochemical Applications. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 277	3.9	269
127	Formation of Chromate Conversion Coatings on Al-Cu-Mg Intermetallic Compounds and Alloys. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 4494	3.9	63
126	Self-catalysis by Catechols and Quinones during Heterogeneous Electron Transfer at Carbon Electrodes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6759-6764	16.4	198
125	Elucidation of the Mechanism of Dioxygen Reduction on Metal-Free Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 3420	3.9	177
124	Storage and Release of Soluble Hexavalent Chromium from Chromate Conversion Coatings Equilibrium Aspects of Cr[VI] Concentration. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2556	3.9	159
123	In Situ Raman Microscopy of Chromate Effects on Corrosion Pits in Aluminum Alloy. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 4076-4081	3.9	82

122	Characterization of the surface carbonyl and hydroxyl coverage on glassy carbon electrodes using Raman spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 469, 150-158	4.1	35
121	Facile Preparation of Active Glassy Carbon Electrodes with Activated Carbon and Organic Solvents. <i>Analytical Chemistry</i> , 1999 , 71, 3574-3580	7.8	157
120	Surface Chemistry and Electron-Transfer Kinetics of Hydrogen-Modified Glassy Carbon Electrodes. <i>Analytical Chemistry</i> , 1999 , 71, 1553-1560	7.8	92
119	Electrochemical Modification of Boron-Doped Chemical Vapor Deposited Diamond Surfaces with Covalently Bonded Monolayers. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 288		127
118	Control of Catechol and Hydroquinone Electron-Transfer Kinetics on Native and Modified Glassy Carbon Electrodes. <i>Analytical Chemistry</i> , 1999 , 71, 4594-4602	7.8	204
117	Effects of Surface Monolayers on the Electron-Transfer Kinetics and Adsorption of Methyl Viologen and Phenothiazine Derivatives on Glassy Carbon Electrodes. <i>Analytical Chemistry</i> , 1999 , 71, 4081-4087	7.8	88
116	Structure and Function of Ferricyanide in the Formation of Chromate Conversion Coatings on Aluminum Aircraft Alloy. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3696-3701	3.9	83
115	Noninvasive identification of materials inside USP vials with Raman spectroscopy and a Raman spectral library. <i>Journal of Pharmaceutical Sciences</i> , 1998 , 87, 1-8	3.9	38
114	Calibration of Raman Spectrometer Instrument Response Function with Luminescence Standards: An Update. <i>Applied Spectroscopy</i> , 1998 , 52, 1614-1618	3.1	46
113	Corrosion Protection of Untreated AA-2024-T3 in Chloride Solution by a Chromate Conversion Coating Monitored with Raman Spectroscopy. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 2258-2264	3.9	215
112	Chemistry of a Chromate Conversion Coating on Aluminum Alloy AA2024-T3 Probed by Vibrational Spectroscopy. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 3083-3089	3.9	149
111	Raman spectroscopic determination of the structure and orientation of organic monolayers chemisorbed on carbon electrode surfaces. <i>Analytical Chemistry</i> , 1997 , 69, 2091-7	7.8	100
110	Spatially Resolved Raman Spectroscopy of Carbon Electrode Surfaces: Observations of Structural and Chemical Heterogeneity. <i>Analytical Chemistry</i> , 1997 , 69, 4680-4687	7.8	125
109	Simplified Calibration of Instrument Response Function for Raman Spectrometers Based on Luminescent Intensity Standards. <i>Applied Spectroscopy</i> , 1997 , 51, 108-116	3.1	57
108	Multichannel FT-Raman Spectroscopy: Noise Analysis and Performance Assessment. <i>Applied Spectroscopy</i> , 1997 , 51, 1687-1697	3.1	15
107	Control of Electron Transfer Kinetics at Glassy Carbon Electrodes by Specific Surface Modification. <i>Analytical Chemistry</i> , 1996 , 68, 3958-3965	7.8	605
106	Multichannel Fourier Transform Raman Spectroscopy: Combining the Advantages of CCDs with Interferometry. <i>Applied Spectroscopy</i> , 1996 , 50, 1209-1214	3.1	16
105	Isotope and surface preparation effects on alkaline dioxygen reduction at carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 410, 235-242	4.1	136

104	Quantitative Surface Raman Spectroscopy of Physisorbed Monolayers on Glassy Carbon. <i>Langmuir</i> , 1995 , 11, 4041-4047	4	44
103	Electron Transfer Kinetics at Modified Carbon Electrode Surfaces: The Role of Specific Surface Sites. <i>Analytical Chemistry</i> , 1995 , 67, 3115-3122	7.8	289
102	Resonance Raman Observation of Surface Carbonyl Groups on Carbon Electrodes Following Dinitrophenylhydrazine Derivatization. <i>Analytical Chemistry</i> , 1995 , 67, 967-975	7.8	40
101	Reactions of Organic Monolayers on Carbon Surfaces Observed with Unenhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11254-11259	16.4	304
100	Polarized Raman Spectroscopy of Metallophthalocyanine Monolayers on Carbon Surfaces. <i>Langmuir</i> , 1995 , 11, 4036-4040	4	25
99	Raman spectroscopy of normal and diseased human breast tissues. <i>Analytical Chemistry</i> , 1995 , 67, 777-838	83.8	318
98	Carbon Electrode Surface Chemistry 1995 , 1-26		8
97	Control of reactivity at carbon electrode surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994 , 93, 211-219	5.1	77
96	Laser activation of carbon microdisk electrodes: Surface oxide effects on Ru(NH ₃) ₆ ²⁺ kinetics. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 369, 175-181	4.1	22
95	Scanning Tunneling Microscopy of Ordered Graphite and Glassy Carbon Surfaces: Electronic Control of Quinone Adsorption. <i>Langmuir</i> , 1994 , 10, 4307-4314	4	121
94	Anomalously Slow Electron Transfer at Ordered Graphite Electrodes: Influence of Electronic Factors and Reactive Sites. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 5314-5319		228
93	Characterization of human breast biopsy specimens with near-IR Raman spectroscopy. <i>Analytical Chemistry</i> , 1994 , 66, 319-26	7.8	150
92	Reduction of Fluorescence Interference in Raman Spectroscopy via Analyte Adsorption on Graphitic Carbon. <i>Analytical Chemistry</i> , 1994 , 66, 4159-4165	7.8	91
91	Scanning tunneling microscopy of carbon surfaces: relationships between electrode kinetics, capacitance, and morphology for glassy carbon electrodes. <i>Analytical Chemistry</i> , 1993 , 65, 937-944	7.8	91
90	Synthesis, characterization, and electrochemical activity of halogen-doped glassy carbon. <i>Chemistry of Materials</i> , 1993 , 5, 1110-1117	9.6	14
89	Preparation of nanoscale platinum(0) clusters in glassy carbon and their catalytic activity. <i>Chemistry of Materials</i> , 1993 , 5, 1727-1738	9.6	31
88	Laser-Induced Transient Currents on Glassy Carbon Electrodes: Double Layer and Ion Adsorption Effects. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 1360-1365	3.9	20
87	Electron Transfer Kinetics of Aqueous Fe ³⁺ / Fe ²⁺ , Eu ³⁺ / Eu ²⁺ , and V ³⁺ / V ²⁺ at Carbon Electrodes: Inner Sphere Catalysis by Surface Oxides. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 2593-2599	3.9	123

86	Detection of Silicone in Lymph Node Biopsy Specimens by Near-Infrared Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1993 , 47, 387-390	3.1	20
85	Intensity Calibration and Sensitivity Comparisons for CCD/Raman Spectrometers. <i>Applied Spectroscopy</i> , 1993 , 47, 1965-1974	3.1	54
84	Adsorption of catechols on fractured glassy carbon electrode surfaces. <i>Analytical Chemistry</i> , 1992 , 64, 444-448	7.8	74
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