

David H Waldeck

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.

222
papers

10,859
citations

56
h-index

95
g-index

247
ext. papers

12,072
ext. citations

7.9
avg, IF

6.53
L-index

#	Paper	IF	Citations
222	Theory of Chirality Induced Spin Selectivity: Progress and Challenges.. <i>Advanced Materials</i> , 2022 , e2106622	6.1	14
221	Polymer-Stabilized Liquid Metal Nanoparticles as a Scalable Current Collector Engineering Approach Enabling Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3615-3625	6.1	0
220	Electron transfer and spin-orbit coupling: Can nuclear motion lead to spin selective rates?. <i>Journal of Chemical Physics</i> , 2022 , 156, 174113	3.9	2
219	Manipulating cobalt oxide on N-doped aligned electrospun carbon nanofibers towards instant electrochemical detection of dopamine secreted by living cells. <i>Applied Surface Science</i> , 2021 , 577, 151912	6.7	1
218	The spin selectivity effect in chiral materials. <i>APL Materials</i> , 2021 , 9, 040902	5.7	25
217	Delocalization-Assisted Transport through Nucleic Acids in Molecular Junctions. <i>Biochemistry</i> , 2021 , 60, 1368-1378	3.2	1
216	Temperature Dependence of Charge and Spin Transfer in Azurin. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9875-9883	3.8	7
215	Chirality Nanosensor with Direct Electric Readout by Coupling of Nanofloret Localized Plasmons with Electronic Transport. <i>Nano Letters</i> , 2021 , 21, 6496-6503	11.5	4
214	Using C-Doping to Identify Photocatalytic Properties of Graphitic Carbon Nitride That Govern Antibacterial Efficacy. <i>ACS ES&T Water</i> , 2021 , 1, 269-280		7
213	Using post-synthetic ligand modification to imprint chirality onto the electronic states of cesium lead bromide (CsPbBr) perovskite nanoparticles. <i>Nanoscale</i> , 2021 , 13, 15248-15256	7.7	2
212	Enantiospecificity of Cysteine Adsorption on a Ferromagnetic Surface: Is It Kinetically or Thermodynamically Controlled?. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7854-7858	6.4	4
211	Elemental Core Level Shift in High Entropy Alloy Nanoparticles X-ray Photoelectron Spectroscopy Analysis and First-Principles Calculation. <i>ACS Nano</i> , 2020 ,	16.7	19
210	Effect of Chiral Molecules on the Electron's Spin Wavefunction at Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1550-1557	6.4	33
209	Comment on Spin-dependent electron transmission model for chiral molecules in mesoscopic devices. <i>Physical Review B</i> , 2020 , 101,	3.3	11
208	The Electron Spin as a Chiral Reagent. <i>Angewandte Chemie</i> , 2020 , 132, 1670-1675	3.6	2
207	Increasing the Efficiency of Water Splitting through Spin Polarization Using Cobalt Oxide Thin Film Catalysts. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22610-22618	3.8	19
206	Chiral Induced Spin Selectivity Gives a New Twist on Spin-Control in Chemistry. <i>Accounts of Chemical Research</i> , 2020 , 53, 2659-2667	24.3	24

205	Asymmetric reactions induced by electron spin polarization. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 21570-21582	3.6	13
204	Magneto-Optical Detection of Photoinduced Magnetism Chirality-Induced Spin Selectivity in 2D Chiral Hybrid Organic-Inorganic Perovskites. <i>ACS Nano</i> , 2020 , 14, 10370-10375	16.7	22
203	Optical Multilevel Spin Bit Device Using Chiral Quantum Dots. <i>Nano Letters</i> , 2020 , 20, 8675-8681	11.5	9
202	Optimizing the Key Variables to Generate Host Sensitized Lanthanide Doped Semiconductor Nanoparticle Luminophores. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26495-26517	3.8	6
201	Polyene-Free Photoluminescent Polymers via Hydrothermal Hydrolysis of Polyacrylonitrile in Neutral Water. <i>ACS Macro Letters</i> , 2020 , 9, 1403-1408	6.6	4
200	Spin-Dependent Enantioselective Electropolymerization. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20974-20980	3.8	4
199	The Electron Spin as a Chiral Reagent. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1653-1658	16.4	33
198	Chiral Molecules and the Spin Selectivity Effect. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3660-3666	6.4	55
197	Chiral molecules-ferromagnetic interfaces, an approach towards spin controlled interactions. <i>Applied Physics Letters</i> , 2019 , 115, 133701	3.4	10
196	Spin Selectivity in Photoinduced Charge-Transfer Mediated by Chiral Molecules. <i>ACS Nano</i> , 2019 , 13, 4928-4946	16.7	40
195	Voltage-induced long-range coherent electron transfer through organic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5931-5936	11.5	30
194	Chiral molecules and the electron spin. <i>Nature Reviews Chemistry</i> , 2019 , 3, 250-260	34.6	226
193	Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules. <i>Small</i> , 2019 , 15, e1804557	11	24
192	Nano Ferromagnetism: Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules (Small 1/2019). <i>Small</i> , 2019 , 15, 1970004	11	3
191	Controlling Chemical Selectivity in Electrocatalysis with Chiral CuO-Coated Electrodes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3024-3031	3.8	42
190	Improving Solar Cell Performance Using Quantum Dot Triad Charge-Separation Engines. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5924-5934	3.8	10
189	Molecular Conductance of Nicked Nucleic Acid Duplexes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7533-7540	3.8	4
188	Stable Low-Current Electrodeposition of MnO on Superaligned Electrospun Carbon Nanofibers for High-Performance Energy Storage. <i>Small</i> , 2018 , 14, 1703237	11	23

187	The Chiral Induced Spin Selectivity (CISS) Effect. <i>Materials and Energy</i> , 2018 , 235-270		2
186	Imprinting Chirality onto the Electronic States of Colloidal Perovskite Nanoplatelets. <i>Advanced Materials</i> , 2018 , 30, e1800097	24	53
185	Spin-Dependent Processes Measured without a Permanent Magnet. <i>Advanced Materials</i> , 2018 , 30, e1707390	21	21
184	Bacteriorhodopsin based non-magnetic spin filters for biomolecular spintronics. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1091-1097	3.6	24
183	Directing Charge Transfer in Quantum Dot Assemblies. <i>Accounts of Chemical Research</i> , 2018 , 51, 2565-2573	16	16
182	What Is Beyond Charge Trapping in Semiconductor Nanoparticle Sensitized Dopant Photoluminescence?. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6191-6197	6.4	12
181	Antioxidant Capacity of Nitrogen and Sulfur Codoped Carbon Nanodots. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2699-2708	5.6	25
180	Chirality and Spin: A Different Perspective on Enantioselective Interactions. <i>Chimia</i> , 2018 , 72, 394-398	1.3	13
179	Chirality-induced spin polarization places symmetry constraints on biomolecular interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2474-2478	11.5	110
178	A new approach towards spintronics-spintronics with no magnets. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 103002	1.8	60
177	Effects of the Backbone and Chemical Linker on the Molecular Conductance of Nucleic Acid Duplexes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6726-6735	16.4	27
176	Chirality Control of Electron Transfer in Quantum Dot Assemblies. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9038-9043	16.4	53
175	Charge and spin transport through nucleic acids. <i>Current Opinion in Electrochemistry</i> , 2017 , 4, 175-181	7.2	15
174	A fluorescence-electrochemical study of carbon nanodots (CNDs) in bio- and photoelectronic applications and energy gap investigation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20101-20109	3.6	40
173	Controlling the Electron-Transfer Kinetics of Quantum-Dot Assemblies. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14401-14412	3.8	8
172	Electron Transfer in Nanoparticle Dyads Assembled on a Colloidal Template. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13260-13270	16.4	24
171	Through-Solvent Tunneling in Donor-Bridge-Acceptor Molecules Containing a Molecular Cleft. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6004-13	2.8	10
170	Spin-Dependent Transport through Chiral Molecules Studied by Spin-Dependent Electrochemistry. <i>Accounts of Chemical Research</i> , 2016 , 49, 2560-2568	24.3	93

169	Spin Selective Charge Transport through Cysteine Capped CdSe Quantum Dots. <i>Nano Letters</i> , 2016 , 16, 4583-9	11.5	64
168	Eliminating Fermi-level pinning in PbS quantum dots using an alumina interfacial layer. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 704-712	7.1	16
167	A semi-analytical decomposition analysis of surface plasmon generation and the optimal nanoledge plasmonic device. <i>RSC Advances</i> , 2016 , 6, 17196-17203	3.7	8
166	The electron's spin and molecular chirality - how are they related and how do they affect life processes?. <i>Chemical Society Reviews</i> , 2016 , 45, 6478-6487	58.5	126
165	Identifying the Correct Host-Guest Combination To Sensitize Trivalent Lanthanide (Guest) Luminescence: Titanium Dioxide Nanoparticles as a Model Host System. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23870-23882	3.8	37
164	Evidence for Enhanced Electron Transfer by Multiple Contacts between Self-Assembled Organic Monolayers and Semiconductor Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15839-15845	3.8	7
163	Field and chirality effects on electrochemical charge transfer rates: spin dependent electrochemistry. <i>ACS Nano</i> , 2015 , 9, 3377-84	16.7	64
162	A scanning tunneling microscope break junction method with continuous bias modulation. <i>Nanoscale</i> , 2015 , 7, 14965-73	7.7	6
161	Spin Filtering in Electron Transport Through Chiral Oligopeptides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 14542-14547	3.8	125
160	Spintronics and chirality: spin selectivity in electron transport through chiral molecules. <i>Annual Review of Physical Chemistry</i> , 2015 , 66, 263-81	15.7	261
159	A three-step kinetic model for electrochemical charge transfer in the hopping regime. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 7579-89	2.8	6
158	Luminescence quenching by photoinduced charge transfer between metal complexes in peptide nucleic acids. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 9037-45	3.4	5
157	Synergistic effect of surface plasmonic particles in PbS/TiO ₂ heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 386-393	6.4	8
156	Driving charge separation for hybrid solar cells: photo-induced hole transfer in conjugated copolymer and semiconductor nanoparticle assemblies. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5066-70	3.6	12
155	Depleted Bulk Heterojunctions in Thermally Annealed PbS Quantum Dot Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14749-14758	3.8	16
154	Breaking the simple proportionality between molecular conductances and charge transfer rates. <i>Faraday Discussions</i> , 2014 , 174, 57-78	3.6	41
153	Electron transfer with azurin at Au-SAM junctions in contact with a protic ionic melt: impact of glassy dynamics. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16515-26	3.6	11
152	Ligand-Induced Changes in the Characteristic Size-Dependent Electronic Energies of CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22401-22411	3.8	43

151	Seedless CTAB mediated growth of anisotropic nanoparticles and nanoparticle clusters on nanostructured plasmonic templates. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6774	7.1	3
150	Voltammetry Can Reveal Differences between the Potential Energy Curve (pec) and Density of States (dos) Models for Heterogeneous Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20746-20761	3.8	6
149	The effect of oxygen heteroatoms on the single molecule conductance of saturated chains. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4431-41	3.4	24
148	The single-molecule conductance and electrochemical electron-transfer rate are related by a power law. <i>ACS Nano</i> , 2013 , 7, 5391-401	16.7	59
147	A Post-synthetic Modification of II-VI Nanoparticles to Create Tb and Eu Luminophores. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14451-14460	3.8	39
146	Enhanced Sensitivity of Delocalized Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25693-25703	3.8	4
145	Chemical and Electrochemical Manipulation of Mechanical Properties in Stimuli-Responsive Copper-Cross-Linked Hydrogels. <i>ACS Macro Letters</i> , 2013 , 2, 1095-1099	6.6	68
144	Biography of Ron Naaman. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22172-22172	3.8	
143	Effect of backbone flexibility on charge transfer rates in peptide nucleic acid duplexes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9335-42	16.4	36
142	Perfluorinated Aromatic Spacers for Sensitizing Europium(III) Centers in Dinuclear Oligomers: Better than the Best by Chemical Design?. <i>Angewandte Chemie</i> , 2012 , 124, 11464-11467	3.6	4
141	Perfluorinated aromatic spacers for sensitizing europium(III) centers in dinuclear oligomers: better than the best by chemical design?. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11302-5	16.4	25
140	Determination of the Electronic Energetics of CdTe Nanoparticle Assemblies on Au Electrodes by Photoemission, Electrochemical, and Photocurrent Studies. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17464-17472	3.8	24
139	Charge transfer through modified peptide nucleic acids. <i>Langmuir</i> , 2012 , 28, 1971-81	4	13
138	Manipulating Mechanical Properties with Electricity: Electroplastic Elastomer Hydrogels.. <i>ACS Macro Letters</i> , 2012 , 1, 204-208	6.6	54
137	Chiral-Induced Spin Selectivity Effect. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2178-87	6.4	273
136	Lanthanide sensitization in II-VI semiconductor materials: a case study with terbium(III) and europium(III) in zinc sulfide nanoparticles. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 4031-41	2.8	80
135	Optimizing sensitization processes in dinuclear luminescent lanthanide oligomers: selection of rigid aromatic spacers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16219-34	16.4	73
134	Detection of coronary atherosclerotic plaques with superficial proteoglycans and foam cells using real-time intrinsic fluorescence spectroscopy. <i>Atherosclerosis</i> , 2011 , 215, 96-102	3.1	11

133	Coherence in electron transfer pathways. <i>Procedia Chemistry</i> , 2011 , 3, 99-104		8
132	Comparison of the Density of States (dos) and Potential Energy Curve (pec) Models for the Electrochemical Rate Constant. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20662-20673	3.8	14
131	Electronic Structure of Self-Assembled Peptide Nucleic Acid Thin Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17123-17135	3.8	15
130	Electrochemically Guided Photovoltaic Devices: A Photocurrent Study of the Charge Transfer Directionality between CdTe and CdSe Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18136-18141	3.8	13
129	Evidence for a near-resonant charge transfer mechanism for double-stranded peptide nucleic acid. <i>Journal of the American Chemical Society</i> , 2011 , 133, 62-72	16.4	43
128	Fundamental Studies of Long- and Short-Range Electron Exchange Mechanisms between Electrodes and Proteins. <i>Modern Aspects of Electrochemistry</i> , 2011 , 105-238		10
127	Transmission SPR of Gold Nanoslit Array and Ultrasensitive Detection of a Retinol Binding Protein. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010 ,		1
126	Fundamental signatures of short- and long-range electron transfer for the blue copper protein azurin at Au/SAM junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2757-62	11.5	71
125	Fluctuations in biological and bioinspired electron-transfer reactions. <i>Annual Review of Physical Chemistry</i> , 2010 , 61, 461-85	15.7	161
124	Electron Transfer and Fluorescence Quenching of Nanoparticle Assemblies. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5751-5759	3.8	59
123	Composite nanoparticle nanoslit arrays: a novel platform for LSPR mediated subwavelength optical transmission. <i>Optics Express</i> , 2010 , 18, 7705-13	3.3	31
122	Distance dependence of the charge transfer rate for peptide nucleic acid monolayers. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14140-8	3.4	40
121	The effect of periodicity on the extraordinary optical transmission of annular aperture arrays. <i>Applied Physics Letters</i> , 2009 , 94, 023104	3.4	34
120	Experimental evidence for water mediated electron transfer through bis-amino acid donor-bridge-acceptor oligomers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2044-5	16.4	19
119	Self-assembly of nanoparticle arrays on semiconductor substrate for charge transfer cascade. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7213-7	2.8	11
118	Electronic Structure of CdSe Nanoparticles Adsorbed on Au Electrodes by an Organic Linker: Fermi Level Pinning of the HOMO. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14200-14206	3.8	37
117	Solvent dynamical effects on electron transfer in U-shaped donor-bridge-acceptor molecules. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1040-8	2.8	12
116	A Unified Model for the Electrochemical Rate Constant That Incorporates Solvent Dynamics. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17904-17914	3.8	29

115	Role of nucleobase energetics and nucleobase interactions in single-stranded peptide nucleic acid charge transfer. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6498-507	16.4	52
114	Blue-shift of surface plasmon resonance in a metal nanoslit array structure. <i>Optics Express</i> , 2009 , 17, 16081-91	3.3	36
113	Charge Transfer through Single-Stranded Peptide Nucleic Acid Composed of Thymine Nucleotides. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7233-7240	3.8	45
112	Evolution in the supramolecular complexes between poly(phenylene ethynylene)-based polyelectrolytes and octadecyltrimethylammonium bromide as revealed by fluorescence correlation spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 8218-26	3.4	16
111	Multiple Sites for Electron Tunneling between Cytochrome c and Mixed Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2514-2521	3.8	27
110	Electron-Transfer Kinetics of Covalently Attached Cytochrome c/SAM/Au Electrode Assemblies. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6571-6576	3.8	52
109	Charge density effects on the aggregation properties of poly(p-phenylene-ethynylene)-based anionic polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3300-10	3.4	22
108	Effect of deuterium substitution on electron transfer at cytochrome c/SAM interfaces. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12498-507	3.4	13
107	Denaturation of Cytochrome c and Its Peroxidase Activity When Immobilized on SAM Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1351-1356	3.8	36
106	Carbon nanotube-polymer nanocomposite infrared sensor. <i>Nano Letters</i> , 2008 , 8, 1142-6	11.5	161
105	Chiral control of electron transmission through molecules. <i>Physical Review Letters</i> , 2008 , 101, 238103	7.4	45
104	Competing electron-transfer pathways in hydrocarbon frameworks: short-circuiting through-bond coupling by nonbonded contacts in rigid U-shaped norbornylogous systems containing a cavity-bound aromatic pendant group. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3247-56	16.4	17
103	Dependence of fluorescence quenching of a poly(p-phenyleneethynylene) polyelectrolyte on the electrostatic and hydrophobic properties of the quencher. <i>Langmuir</i> , 2007 , 23, 13203-8	4	14
102	Solvation and aggregation of polyphenylethynylene based anionic polyelectrolytes in dilute solutions. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8589-96	3.4	45
101	Impact of self-assembly composition on the alternate interfacial electron transfer for electrostatically immobilized cytochrome c. <i>Biopolymers</i> , 2007 , 87, 68-73	2.2	28
100	Cardiolipin switch in mitochondria: shutting off the reduction of cytochrome c and turning on the peroxidase activity. <i>Biochemistry</i> , 2007 , 46, 3423-34	3.2	171
99	Pendant unit effect on electron tunneling in U-shaped molecules. <i>Chemical Physics</i> , 2006 , 324, 72-84	2.3	6
98	High-sensitivity surface plasmon resonance spectroscopy based on a metal nanoslit array. <i>Applied Physics Letters</i> , 2006 , 88, 243105	3.4	26

97	Molecular chirality and charge transfer through self-assembled scaffold monolayers. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1301-8	3.4	47
96	The chiroptical signature of achiral metal clusters induced by dissymmetric adsorbates. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 63-7	3.6	118
95	The effect of ionic strength on the electron-transfer rate of surface immobilized cytochrome C. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5062-72	3.4	43
94	On the electron transfer mechanism between cytochrome C and metal electrodes. Evidence for dynamic control at short distances. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19906-13	3.4	89
93	Solvent friction effect on intramolecular electron transfer. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17867-76	16.4	20
92	Organization-induced charge redistribution in self-assembled organic monolayers on gold. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14064-73	3.4	53
91	Conjugated thiol linker for enhanced electrical conduction of gold-molecule contacts. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5398-402	3.4	72
90	Understanding interfacial electron transfer to monolayer protein assemblies. <i>Current Opinion in Solid State and Materials Science</i> , 2005 , 9, 28-36	12	28
89	Impact of surface immobilization and solution ionic strength on the formal potential of immobilized cytochrome C. <i>Langmuir</i> , 2005 , 21, 6308-16	4	85
88	Fluorescence quenching mechanism of a polyphenylene polyelectrolyte with other macromolecules: cytochrome c and dendrimers. <i>Langmuir</i> , 2005 , 21, 1687-90	4	38
87	Inelastic Electron Tunneling Erases Coupling-Pathway Interferences. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15511-15518	3.4	58
86	Observation of dynamic solvent effect for electron tunneling in u-shaped molecules. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10778-86	16.4	23
85	Probing Electron Tunneling Pathways: Electrochemical Study of Rat Heart Cytochrome c and Its Mutant on Pyridine-Terminated SAMs. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16912-16917	3.4	61
84	Surface-Enhanced Resonance Raman Spectroscopic and Electrochemical Study of Cytochrome c Bound on Electrodes through Coordination with Pyridinyl-Terminated Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2261-2269	3.4	57
83	Hole transfer in a C-shaped molecule: conformational freedom versus solvent-mediated coupling. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15964-73	16.4	19
82	Charge-transfer mechanism for cytochrome c adsorbed on nanometer thick films. Distinguishing frictional control from conformational gating. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7704-14	16.4	117
81	Control of the Electron Transfer Rate between Cytochrome c and Gold Electrodes by the Manipulation of the Electrode's Hydrogen Bonding Character. <i>Langmuir</i> , 2003 , 19, 2378-2387	4	25
80	Positive Activation Volume for a Cytochrome c Electrode Process: Evidence for a Protein Friction Mechanism from High-Pressure Studies. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7172-7179	3.4	26

79	Exposing Solvent's Roles in Electron Transfer Reactions: Tunneling Pathway and Solvation. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 3580-3597	2.8	85
78	Effect of Molecular Properties on Electron Transmission through Organic Monolayer Films. <i>ACS Symposium Series</i> , 2003 , 62-75	0.4	
77	Electron-Transfer Dynamics of Cytochrome C: A Change in the Reaction Mechanism with Distance. <i>Angewandte Chemie</i> , 2002 , 114, 4894-4897	3.6	9
76	Electron-transfer dynamics of cytochrome C: a change in the reaction mechanism with distance. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4700-3	16.4	77
75	Electron Transfer Reactions of C-shaped Molecules in Alkylated Aromatic Solvents: Evidence that the Effective Electronic Coupling Magnitude Is Temperature-Dependent. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 4784-4793	2.8	15
74	The Role Played by Orbital Energetics in Solvent Mediated Electronic Coupling. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 1917-1925	2.8	14
73	Effect of Tilt-Angle on Electron Tunneling through Organic Monolayer Films. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7469-7473	3.4	62
72	Use of U-shaped donor-bridge-acceptor molecules to study electron tunneling through nonbonded contacts. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10171-81	16.4	41
71	Direct wiring of cytochrome c's heme unit to an electrode: electrochemical studies. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9591-9	16.4	134
70	Solvent Mediated Superexchange in a C-Clamp Shaped Donor-Bridge-Acceptor Molecule: The Correlation between Solvent Electron Affinity and Electronic Coupling. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 5288-5296	2.8	20
69	Noncovalent engineering of carbon nanotube surfaces by rigid, functional conjugated polymers. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9034-5	16.4	708
68	The Nature of Electronic Coupling between Ferrocene and Gold through Alkanethiolate Monolayers on Electrodes: The Importance of Chain Composition, Interchain Coupling, and Quantum Interference. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7699-7707	3.4	118
67	Immobilization of cytochrome c at Au electrodes by association of a pyridine terminated SAM and the heme of cytochrome. <i>Chemical Communications</i> , 2001 , 1032-1033	5.8	28
66	Observation of the Turnover between the Solvent Friction (Overdamped) and Tunneling (Nonadiabatic) Charge-Transfer Mechanisms for a Au/Fe(CN) ₆ ^{3-/4-} Electrode Process and Evidence for a Freezing Out of the Marcus Barrier. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1818-1829	2.8	75
65	Electron Transfer in Aromatic Solvents: The Importance of Quadrupolar Interactions. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 9385-9394	2.8	29
64	An EPR Experiment for the Undergraduate Physical Chemistry Laboratory. <i>Journal of Chemical Education</i> , 2000 , 77, 1489	2.4	8
63	Effects of Anions on the NMR Relaxation of Pyridinium and Di-tert-Butylpyridinium Ions in Acid Solution. Implications for Chemisorption on Solid Acids. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5190-5196	2.8	9
62	Solvent Mediated Coupling Across 1 nm: Not a π -Bond in Sight. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12039-12040	16.4	19

61	Resonances in low-energy electron transmission through organized organic films: Evidence for molecular quantum wells. <i>Physical Review B</i> , 1999 , 60, 13347-13350	3.3	13
60	Asymmetric scattering of polarized electrons by organized organic films of chiral molecules. <i>Science</i> , 1999 , 283, 814-6	33.3	201
59	Structural Characterization and Electron Tunneling at n-Si/SiO ₂ /SAM/Liquid Interface. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 5220-5226	3.4	15
58	Solvent-Mediated Electronic Coupling: The Role of Solvent Placement. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10976-10986	16.4	49
57	Characterization of the Surface to Thiol Bonding in Self-Assembled Monolayer Films of C ₁₂ H ₂₅ SH on InP(100) by Angle-Resolved X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 1999 , 15, 8640-8644	4	35
56	Electron Tunneling at the Semiconductor/Insulator/Electrolyte Interface. Photocurrent Studies of the n-InP/Alkanethiol/Ferrocyanide System. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9015-9028	3.4	36
55	Use of Modern Electron Transfer Theories To Determine Electronic Coupling Matrix Elements in Intramolecular Systems. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 5529-5541	2.8	97
54	Rotational Relaxation of Ionic Molecules in Electrolyte Solutions. Anisotropy Relaxation and Molecular Dynamics Study. <i>Journal of the American Chemical Society</i> , 1998 , 120, 7944-7951	16.4	14
53	Rotational Relaxation in Polar Solvents. Molecular Dynamics Study of Solute/Solvent Interaction. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6121-6130	16.4	67
52	Experimental Measurements of Low-Frequency Intermolecular Host/Guest Dynamics. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 5394-5403	3.4	6
51	Orientalional Dynamics of β -Cyclodextrin Inclusion Complexes. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9617-9624	3.4	73
50	Solute/Solvent Frictional Coupling in Electrolyte Solutions. Role of Ion Pairs. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2339-2347	3.4	30
49	Probing solute/solvent electrostatic interactions: Rotational diffusion studies of 9,10-disubstituted anthracenes. <i>Journal of Chemical Physics</i> , 1997 , 106, 7920-7930	3.9	50
48	The Dependence of Resistance on Temperature for Metals, Semiconductors, and Superconductors. <i>Journal of Chemical Education</i> , 1997 , 74, 1090	2.4	11
47	X-ray Diffraction Investigation of Alloys. <i>Journal of Chemical Education</i> , 1997 , 74, 115	2.4	14
46	Electronic Coupling in C-Clamp-Shaped Molecules: Solvent-Mediated Superexchange Pathways. <i>Journal of the American Chemical Society</i> , 1996 , 118, 243-244	16.4	102
45	Studies of Electron Tunneling at Semiconductor Electrodes. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 9573-9576		23
44	A molecular dynamics study of dielectric friction. <i>Journal of Chemical Physics</i> , 1996 , 105, 628-638	3.9	45

43	Photocapacitance Study of Chemically Sensitized TiO ₂ Electrodes. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 4569-4576		3
42	Preparation of Self-Assembled Monolayers on InP. <i>Langmuir</i> , 1995 , 11, 1849-1851	4	73
41	Fluorescence Quantum Yields and Lifetimes of Substituted Stilbenes in n-Alkanes. A Reexamination of the Relationship between Solute Size and Medium Effect on Torsional Relaxation. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 10689-10698		39
40	A Test of Dielectric Friction Models. Rotational Diffusion of Fluorenes in Dimethyl sulfoxide. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 1386-1393		43
39	The dependence of electron transfer efficiency on the conformational order in organic monolayers. <i>Science</i> , 1994 , 263, 948-50	33.3	93
38	The Excited State Potential Energy Surface for the Photoisomerization of Tetraphenylethylene: A Fluorescence and Picosecond Optical Calorimetry Investigation. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10619-10629	16.4	49
37	Dielectric Continuum Models of Solute/Solvent Interactions 1994 , 249-265		4
36	Molecular electronics: observation of molecular rectification. <i>Science</i> , 1993 , 261, 576-7	33.3	49
35	Rotational diffusion in electrolyte solutions. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9692-9700		37
34	The WSe ₂ /Tungsten-Oxide Interface: Structure and Photoluminescence. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1993 , 97, 702-708		10
33	Time-resolved studies of charge carrier relaxation in chemically modified semiconductor electrodes: n-cadmium selenide/silane interfaces. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 4141-4148		4
32	Carrier relaxation at semiconductor interfaces and essential features of a quantitative model. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 10371-10379		10
31	Time resolution limits for two-color pump/probe spectroscopy. <i>Review of Scientific Instruments</i> , 1992 , 63, 2913-2921	1.7	1
30	Photophysics of polycycloalkane xanthenylidene compounds. <i>Chemical Physics Letters</i> , 1992 , 191, 411-418	1.5	1
29	A test of hydrodynamics in binary solvent systems: rotational diffusion studies of oxazine 118. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 4848-4852		42
28	An experimental test of dielectric friction models using the rotational diffusion of aminoanthraquinones. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 7872-7880		66
27	The influence of wave vector dependent dielectric properties on rotational friction. Rotational diffusion of phenoxazine dyes. <i>Journal of Chemical Physics</i> , 1991 , 95, 6770-6783	3.9	64
26	Rotational dielectric friction on a generalized charge distribution. <i>Journal of Chemical Physics</i> , 1991 , 94, 6196-6202	3.9	69

25	A test of continuum models for dielectric friction. Rotational diffusion of phenoxazine dyes in dimethylsulfoxide. <i>Journal of Chemical Physics</i> , 1991 , 94, 4509-4520	3.9	79
24	Application of the medium-enhanced barrier model to the photoisomerization dynamics of substituted stilbenes in n-alkane solvents. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 10336-10344		34
23	Inclusion complexation by bis(cyclodextrins) in the presence of phospholipid vesicles. <i>Journal of the American Chemical Society</i> , 1991 , 113, 2325-2327	16.4	28
22	Photoisomerization dynamics of stilbenes. <i>Chemical Reviews</i> , 1991 , 91, 415-436	68.1	1099
21	Optically heterodyned polarization spectroscopy. Measurement of the orientational correlation function. <i>Journal of Chemical Physics</i> , 1990 , 92, 4055-4066	3.9	58
20	Influence of polar solvents on reaction dynamics: photoisomerization studies of dihydroxystilbene. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 662-669		32
19	Hydrogen-bonding self-assembly of multichromophore structures. <i>Journal of the American Chemical Society</i> , 1990 , 112, 9408-9410	16.4	128
18	Rotational Diffusion of Phenoxazine Dyes: Characterization of Molecular Friction. <i>Springer Series in Chemical Physics</i> , 1990 , 450-452	0.3	
17	Photoisomerization Dynamics of Methylstilbenes. <i>Springer Series in Chemical Physics</i> , 1990 , 465-467	0.3	
16	Solvent dielectric effects on isomerization dynamics: Investigation of the photoisomerization of 4,4'-dimethoxystilbene and t-stilbene in n-alkyl nitriles. <i>Journal of Chemical Physics</i> , 1989 , 90, 2305-2316	3.9	56
15	Implications for multidimensional effects on isomerization dynamics: Photoisomerization study of 4,4'-dimethylstilbene in n-alkane solvents. <i>Journal of Chemical Physics</i> , 1989 , 91, 943-952	3.9	38
14	Intramolecular excimer formation by phthaloyl, isophthaloyl and terephthaloyl groups in polyesters with different numbers of methylene and oxyethylene spacers. <i>Polymer</i> , 1989 , 30, 1680-1684	3.9	10
13	Evidence for dynamic solvent effects on the photoisomerization of 4,4'-dimethoxystilbene. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 692-701		61
12	Influence of Functional Groups and Solvent on the Photoisomerization of Stilbenes. <i>Springer Series in Chemical Physics</i> , 1988 , 551-554	0.3	
11	Electronic energy transfer at semiconductor interfaces. I. Energy transfer from two-dimensional molecular films to Si(111). <i>Journal of Chemical Physics</i> , 1987 , 86, 6540-6549	3.9	65
10	Photoisomerization Studies of Substituted Stilbenes: 4,4'-Dihydroxystilbene and 4,4'-Dimethoxystilbene. <i>Springer Series in Chemical Physics</i> , 1986 , 347-349	0.3	1
9	Nonclassical behavior of energy transfer from molecules to metal surfaces: Biacetyl(3n ⁺)/Ag(111). <i>Journal of Chemical Physics</i> , 1985 , 82, 541-547	3.9	85
8	Photochemical Isomerization Viewed as a Model for Activated Barrier Crossing in Solution 1984 , 67-77		1

7	Time resolved polarization spectroscopy: Level kinetics and rotational diffusion. <i>Journal of Chemical Physics</i> , 1983 , 78, 6455-6467	3.9	110
6	Breakdown of Kramers theory description of photochemical isomerization and the possible involvement of frequency dependent friction. <i>Journal of Chemical Physics</i> , 1983 , 78, 249-258	3.9	262
5	Ultraviolet picosecond pump-probe spectroscopy with a synchronously pumped dye laser. Rotational diffusion of diphenyl butadiene. <i>Chemical Physics Letters</i> , 1982 , 88, 297-300	2.5	47
4	Dynamics of Photoisomerization. <i>Springer Series in Chemical Physics</i> , 1982 , 238-241	0.3	
3	Picosecond pulse induced transient molecular birefringence and dichroism. <i>Journal of Chemical Physics</i> , 1981 , 74, 3381-3387	3.9	105
2	Influence of viscosity and temperature on rotational reorientation. Anisotropic absorption studies of 3,3'-diethyloxadicyanone iodide. <i>The Journal of Physical Chemistry</i> , 1981 , 85, 2614-2617		86
1	Pulse structure studies and absolute cavity length determination for a synchronously pumped picosecond dye laser. <i>Optics Communications</i> , 1980 , 34, 127-132	2	32