

David H Waldeck

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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	Photoisomerization dynamics of stilbenes. <i>Chemical Reviews</i> , 1991 , 91, 415-436	68.1	1099
221	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
220	Chiral-Induced Spin Selectivity Effect. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2178-87	6.4	273
219	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
218	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
217	Chiral molecules and the electron spin. <i>Nature Reviews Chemistry</i> , 2019 , 3, 250-260	34.6	226
216	Asymmetric scattering of polarized electrons by organized organic films of chiral molecules. <i>Science</i> , 1999 , 283, 814-6	33.3	201
215	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
214	Fluctuations in biological and bioinspired electron-transfer reactions. <i>Annual Review of Physical Chemistry</i> , 2010 , 61, 461-85	15.7	161
213	Carbon nanotube-polymer nanocomposite infrared sensor. <i>Nano Letters</i> , 2008 , 8, 1142-6	11.5	161
212	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
211	Hydrogen-bonding self-assembly of multichromophore structures. <i>Journal of the American Chemical Society</i> , 1990 , 112, 9408-9410	16.4	128
210	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
209	Spin Filtering in Electron Transport Through Chiral Oligopeptides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 14542-14547	3.8	125
208	The chiroptical signature of achiral metal clusters induced by dissymmetric adsorbates. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 63-7	3.6	118
207	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
206	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

205	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
204	Time resolved polarization spectroscopy: Level kinetics and rotational diffusion. <i>Journal of Chemical Physics</i> , 1983 , 78, 6455-6467	3.9	110
203	Picosecond pulse induced transient molecular birefringence and dichroism. <i>Journal of Chemical Physics</i> , 1981 , 74, 3381-3387	3.9	105
202	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
201	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
200	Spin-Dependent Transport through Chiral Molecules Studied by Spin-Dependent Electrochemistry. <i>Accounts of Chemical Research</i> , 2016 , 49, 2560-2568	24.3	93
199	The dependence of electron transfer efficiency on the conformational order in organic monolayers. <i>Science</i> , 1994 , 263, 948-50	33.3	93
198	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
197	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
196	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
195	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
194	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
193	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
192	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
191	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
190	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
189	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
188	Orientalional Dynamics of Cyclodextrin Inclusion Complexes. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9617-9624	3.4	73

187	Preparation of Self-Assembled Monolayers on InP. <i>Langmuir</i> , 1995 , 11, 1849-1851	4	73
186	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
185	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
184	Rotational dielectric friction on a generalized charge distribution. <i>Journal of Chemical Physics</i> , 1991 , 94, 6196-6202	3.9	69
183	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
182	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
181	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
180	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
179	Field and chirality effects on electrochemical charge transfer rates: spin dependent electrochemistry. <i>ACS Nano</i> , 2015 , 9, 3377-84	16.7	64
178	Spin Selective Charge Transport through Cysteine Capped CdSe Quantum Dots. <i>Nano Letters</i> , 2016 , 16, 4583-9	11.5	64
177	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
176	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
175	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
174	Evidence for dynamic solvent effects on the photoisomerization of 4,4'-dimethoxystilbene. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 692-701		61
173	A new approach towards spintronics-spintronics with no magnets. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 103002	1.8	60
172	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
171	Electron Transfer and Fluorescence Quenching of Nanoparticle Assemblies. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5751-5759	3.8	59
170	Inelastic Electron Tunneling Erases Coupling-Pathway Interferences. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15511-15518	3.4	58

169	Optically heterodyned polarization spectroscopy. Measurement of the orientational correlation function. <i>Journal of Chemical Physics</i> , 1990 , 92, 4055-4066	3.9	58
168	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
167	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
166	Chiral Molecules and the Spin Selectivity Effect. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3660-3666	6.4	55
165	Manipulating Mechanical Properties with Electricity: Electroplastic Elastomer Hydrogels.. <i>ACS Macro Letters</i> , 2012 , 1, 204-208	6.6	54
164	Chirality Control of Electron Transfer in Quantum Dot Assemblies. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9038-9043	16.4	53
163	Imprinting Chirality onto the Electronic States of Colloidal Perovskite Nanoplatelets. <i>Advanced Materials</i> , 2018 , 30, e1800097	24	53
162	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
161	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
160	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
159	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
158	Solvent-Mediated Electronic Coupling: The Role of Solvent Placement. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10976-10986	16.4	49
157	Molecular electronics: observation of molecular rectification. <i>Science</i> , 1993 , 261, 576-7	33.3	49
156	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
155	Molecular chirality and charge transfer through self-assembled scaffold monolayers. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1301-8	3.4	47
154	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
153	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
152	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

151	Chiral control of electron transmission through molecules. <i>Physical Review Letters</i> , 2008 , 101, 238103	7.4	45
150	A molecular dynamics study of dielectric friction. <i>Journal of Chemical Physics</i> , 1996 , 105, 628-638	3.9	45
149	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
148	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
147	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
146	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
145	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
144	Controlling Chemical Selectivity in Electrocatalysis with Chiral CuO-Coated Electrodes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3024-3031	3.8	42
143	Breaking the simple proportionality between molecular conductances and charge transfer rates. <i>Faraday Discussions</i> , 2014 , 174, 57-78	3.6	41
142	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
141	Spin Selectivity in Photoinduced Charge-Transfer Mediated by Chiral Molecules. <i>ACS Nano</i> , 2019 , 13, 4928-4946	16.7	40
140	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
139	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
138	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
137	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
136	Fluorescence quenching mechanism of a polyphenylene polyelectrolyte with other macromolecules: cytochrome c and dendrimers. <i>Langmuir</i> , 2005 , 21, 1687-90	4	38
135	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
134	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

133	Rotational diffusion in electrolyte solutions. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9692-9700	16.4	37
132	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
131	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
130	Blue-shift of surface plasmon resonance in a metal nanoslit array structure. <i>Optics Express</i> , 2009 , 17, 16081-91	3.3	36
129	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
128	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
127	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
126	The effect of periodicity on the extraordinary optical transmission of annular aperture arrays. <i>Applied Physics Letters</i> , 2009 , 94, 023104	3.4	34
125	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
124	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
123	The Electron Spin as a Chiral Reagent. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1653-1658	16.4	33
122	Influence of polar solvents on reaction dynamics: photoisomerization studies of dihydroxystilbene. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 662-669		32
121	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
120	Composite nanoparticle nanoslit arrays: a novel platform for LSPR mediated subwavelength optical transmission. <i>Optics Express</i> , 2010 , 18, 7705-13	3.3	31
119	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
118	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
117	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
116	Electron Transfer in Aromatic Solvents: The Importance of Quadrupolar Interactions. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 9385-9394	2.8	29

115	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
114	Understanding interfacial electron transfer to monolayer protein assemblies. <i>Current Opinion in Solid State and Materials Science</i> , 2005 , 9, 28-36	12	28
113	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
112	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
111	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
110	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
109	High-sensitivity surface plasmon resonance spectroscopy based on a metal nanoslit array. <i>Applied Physics Letters</i> , 2006 , 88, 243105	3.4	26
108	Positive Activation Volume for a CytochromeCElectrode 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
107	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
106	Control of the Electron Transfer Rate between Cytochromecand Gold Electrodes by the Manipulation of the Electrode's Hydrogen Bonding Character. <i>Langmuir</i> , 2003 , 19, 2378-2387	4	25
105	The spin selectivity effect in chiral materials. <i>APL Materials</i> , 2021 , 9, 040902	5.7	25
104	Antioxidant Capacity of Nitrogen and Sulfur Codoped Carbon Nanodots. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2699-2708	5.6	25
103	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
102	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
101	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
100	Bacteriorhodopsin based non-magnetic spin filters for biomolecular spintronics. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1091-1097	3.6	24
99	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
98	Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules. <i>Small</i> , 2019 , 15, e1804557	11	24

97	Stable Low-Current Electrodeposition of MnO on Superaligned Electrospun Carbon Nanofibers for High-Performance Energy Storage. <i>Small</i> , 2018 , 14, 1703237	11	23
96	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
95	Studies of Electron Tunneling at Semiconductor Electrodes. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 9573-9576		23
94	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
93	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
92	Spin-Dependent Processes Measured without a Permanent Magnet. <i>Advanced Materials</i> , 2018 , 30, e1707390	23.9	21
91	Solvent friction effect on intramolecular electron transfer. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17867-76	16.4	20
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	Directing Charge Transfer in Quantum Dot Assemblies. <i>Accounts of Chemical Research</i> , 2018 , 51, 2565-2573	7.3	16

79	Charge and spin transport through nucleic acids. <i>Current Opinion in Electrochemistry</i> , 2017 , 4, 175-181	7.2	15
78	Electronic Structure of Self-Assembled Peptide Nucleic Acid Thin Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17123-17135	3.8	15
77	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
76	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
75	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
74	X-ray Diffraction Investigation of Alloys. <i>Journal of Chemical Education</i> , 1997 , 74, 115	2.4	14
73	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
72	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
71	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
70	Theory of Chirality Induced Spin Selectivity: Progress and Challenges.. <i>Advanced Materials</i> , 2022 , e2106629	2.9	14
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