

# David H Waldeck

## List of Publications by Year in descending order

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231  
papers

13,691  
citations

18436

62  
h-index

26548

107  
g-index

247  
all docs

247  
docs citations

247  
times ranked

10852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoisomerization dynamics of stilbenes. <i>Chemical Reviews</i> , 1991, 91, 415-436.	23.0	1,220
2	Noncovalent Engineering of Carbon Nanotube Surfaces by Rigid, Functional Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2002, 124, 9034-9035.	6.6	765
3	Chiral molecules and the electron spin. <i>Nature Reviews Chemistry</i> , 2019, 3, 250-260.	13.8	462
4	Chiral-Induced Spin Selectivity Effect. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2178-2187.	2.1	427
5	Spintronics and Chirality: Spin Selectivity in Electron Transport Through Chiral Molecules. <i>Annual Review of Physical Chemistry</i> , 2015, 66, 263-281.	4.8	374
6	Asymmetric Scattering of Polarized Electrons by Organized Organic Films of Chiral Molecules. <i>Science</i> , 1999, 283, 814-816.	6.0	311
7	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.	1.2	288
8	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.	18.7	194
9	Carbon Nanotube~Polymer Nanocomposite Infrared Sensor. <i>Nano Letters</i> , 2008, 8, 1142-1146.	4.5	193
10	Cardiolipin Switch in Mitochondria: Shutting off the Reduction of Cytochrome c and Turning on the Peroxidase Activity. <i>Biochemistry</i> , 2007, 46, 3423-3434.	1.2	189
11	Fluctuations in Biological and Bioinspired Electron-Transfer Reactions. <i>Annual Review of Physical Chemistry</i> , 2010, 61, 461-485.	4.8	182
12	Spin Filtering in Electron Transport Through Chiral Oligopeptides. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14542-14547.	1.5	171
13	Hydrogen-bonding self-assembly of multichromophore structures. <i>Journal of the American Chemical Society</i> , 1990, 112, 9408-9410.	6.6	160
14	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.	3.3	155
15	Direct Wiring of Cytochrome c's Heme Unit to an Electrode: Electrochemical Studies. <i>Journal of the American Chemical Society</i> , 2002, 124, 9591-9599.	6.6	144
16	The chiroptical signature of achiral metal clusters induced by dissymmetric adsorbates. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 63-67.	1.3	134
17	Spin-Dependent Transport through Chiral Molecules Studied by Spin-Dependent Electrochemistry. <i>Accounts of Chemical Research</i> , 2016, 49, 2560-2568.	7.6	129
18	Chiral Molecules and the Spin Selectivity Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3660-3666.	2.1	126

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19	Charge-Transfer Mechanism for Cytochrome Adsorbed on Nanometer Thick Films. Distinguishing Frictional Control from Conformational Gating. <i>Journal of the American Chemical Society</i> , 2003, 125, 7704-7714.	6.6	124
20	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.	1.2	121
21	Theory of Chirality Induced Spin Selectivity: Progress and Challenges. <i>Advanced Materials</i> , 2022, 34, e2106629.	11.1	119
22	Time resolved polarization spectroscopy: Level kinetics and rotational diffusion. <i>Journal of Chemical Physics</i> , 1983, 78, 6455-6467.	1.2	116
23	Picosecond pulse induced transient molecular birefringence and dichroism. <i>Journal of Chemical Physics</i> , 1981, 74, 3381-3387.	1.2	113
24	Electronic Coupling in C-Clamp-Shaped Molecules: Solvent-Mediated Superexchange Pathways. <i>Journal of the American Chemical Society</i> , 1996, 118, 243-244.	6.6	106
25	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.	1.1	106
26	On the Electron Transfer Mechanism Between Cytochrome and Metal Electrodes. Evidence for Dynamic Control at Short Distances. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19906-19913.	1.2	102
27	Chiral Induced Spin Selectivity Gives a New Twist on Spin-Control in Chemistry. <i>Accounts of Chemical Research</i> , 2020, 53, 2659-2667.	7.6	102
28	The Dependence of Electron Transfer Efficiency on the Conformational Order in Organic Monolayers. <i>Science</i> , 1994, 263, 948-950.	6.0	100
29	Spin Selective Charge Transport through Cysteine Capped CdSe Quantum Dots. <i>Nano Letters</i> , 2016, 16, 4583-4589.	4.5	99
30	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, 4031-4041.	1.1	93
31	Influence of viscosity and temperature on rotational reorientation. Anisotropic absorption studies of 3,3'-diethyloxadicarbocyanine iodide. <i>The Journal of Physical Chemistry</i> , 1981, 85, 2614-2617.	2.9	92
32	Controlling Chemical Selectivity in Electrocatalysis with Chiral CuO-Coated Electrodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3024-3031.	1.5	92
33	Impact of Surface Immobilization and Solution Ionic Strength on the Formal Potential of Immobilized Cytochrome c. <i>Langmuir</i> , 2005, 21, 6308-6316.	1.6	91
34	Chirality Control of Electron Transfer in Quantum Dot Assemblies. <i>Journal of the American Chemical Society</i> , 2017, 139, 9038-9043.	6.6	91
35	Exposing Solvent's Roles in Electron Transfer Reactions: Tunneling Pathway and Solvation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3580-3597.	1.1	89
36	The spin selectivity effect in chiral materials. <i>APL Materials</i> , 2021, 9, 040902.	2.2	88

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37	Nonclassical behavior of energy transfer from molecules to metal surfaces: Biacetyl(3n <sup>+</sup> )/Ag(111). <i>Journal of Chemical Physics</i> , 1985, 82, 541-547.	1.2	87
38	Field and Chirality Effects on Electrochemical Charge Transfer Rates: Spin Dependent Electrochemistry. <i>ACS Nano</i> , 2015, 9, 3377-3384.	7.3	85
39	Imprinting Chirality onto the Electronic States of Colloidal Perovskite Nanoplatelets. <i>Advanced Materials</i> , 2018, 30, e1800097.	11.1	84
40	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.	1.2	83
41	Spin Selectivity in Photoinduced Charge-Transfer Mediated by Chiral Molecules. <i>ACS Nano</i> , 2019, 13, 4928-4946.	7.3	82
42	Chemical and Electrochemical Manipulation of Mechanical Properties in Stimuli-Responsive Copper-Cross-Linked Hydrogels. <i>ACS Macro Letters</i> , 2013, 2, 1095-1099.	2.3	81
43	Electron-Transfer Dynamics of Cytochrome C: A Change in the Reaction Mechanism with Distance. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4700-4703.	7.2	80
44	Optimizing Sensitization Processes in Dinuclear Luminescent Lanthanide Oligomers: Selection of Rigid Aromatic Spacers. <i>Journal of the American Chemical Society</i> , 2011, 133, 16219-16234.	6.6	80
45	Preparation of Self-Assembled Monolayers on InP. <i>Langmuir</i> , 1995, 11, 1849-1851.	1.6	79
46	Observation of the Turnover between the Solvent Friction (Overdamped) and Tunneling (Nonadiabatic) Charge-Transfer Mechanisms for a Au/Fe(CN) <sub>6</sub> <sup>3-/4-</sup> Electrode Process and Evidence for a Freezing Out of the Marcus Barrier. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1818-1829.	1.1	79
47	Orientational Dynamics of $\beta$ -Cyclodextrin Inclusion Complexes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9617-9624.	1.2	77
48	Conjugated Thiol Linker for Enhanced Electrical Conduction of Gold-Molecule Contacts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5398-5402.	1.2	77
49	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, 2757-2762.	3.3	76
50	A new approach towards spintronics—spintronics with no magnets. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 103002.	0.7	76
51	Rotational dielectric friction on a generalized charge distribution. <i>Journal of Chemical Physics</i> , 1991, 94, 6196-6202.	1.2	74
52	A Chirality-Based Quantum Leap. <i>ACS Nano</i> , 2022, 16, 4989-5035.	7.3	74
53	An experimental test of dielectric friction models using the rotational diffusion of aminoanthraquinones. <i>The Journal of Physical Chemistry</i> , 1991, 95, 7872-7880.	2.9	73
54	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.	1.2	71

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55	Rotational Relaxation in Polar Solvents. Molecular Dynamics Study of Solute-Solvent Interaction. <i>Journal of the American Chemical Society</i> , 1998, 120, 6121-6130.	6.6	69
56	Electron Transfer and Fluorescence Quenching of Nanoparticle Assemblies. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5751-5759.	1.5	69
57	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.	1.2	68
58	Probing Electron Tunneling Pathways: An 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.	1.2	68
59	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.	1.5	67
60	Evidence for dynamic solvent effects on the photoisomerization of 4,4'-dimethoxystilbene. <i>The Journal of Physical Chemistry</i> , 1988, 92, 692-701.	2.9	65
61	The Single-Molecule Conductance and Electrochemical Electron-Transfer Rate Are Related by a Power Law. <i>ACS Nano</i> , 2013, 7, 5391-5401.	7.3	65
62	The Electron Spin as a Chiral Reagent. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1653-1658.	7.2	65
63	Effect of Chiral Molecules on the Electron's Spin Wavefunction at Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1550-1557.	2.1	65
64	Effect of Tilt-Angle on Electron Tunneling through Organic Monolayer Films. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7469-7473.	1.2	64
65	Inelastic Electron Tunneling Erases Coupling-Pathway Interferences. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15511-15518.	1.2	63
66	Solvent dielectric effects on isomerization dynamics: Investigation of the photoisomerization of 4,4'-dimethoxystilbene and stilbene in alkyl nitriles. <i>Journal of Chemical Physics</i> , 1989, 90, 2305-2316.	1.2	62
67	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.	1.2	62
68	Optically heterodyned polarization spectroscopy. Measurement of the orientational correlation function. <i>Journal of Chemical Physics</i> , 1990, 92, 4055-4066.	1.2	61
69	Magneto-Optical Detection of Photoinduced Magnetism via Chirality-Induced Spin Selectivity in 2D Chiral Hybrid Organic-Inorganic Perovskites. <i>ACS Nano</i> , 2020, 14, 10370-10375.	7.3	61
70	Manipulating Mechanical Properties with Electricity: Electroplastic Elastomer Hydrogels. <i>ACS Macro Letters</i> , 2012, 1, 204-208.	2.3	59
71	Molecular Chirality and Charge Transfer through Self-Assembled Scaffold Monolayers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1301-1308.	1.2	58
72	Electron-Transfer Kinetics of Covalently Attached Cytochrome c/SAM/Au Electrode Assemblies. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6571-6576.	1.5	57

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73	Molecular Electronics: Observation of Molecular Rectification. <i>Science</i> , 1993, 261, 576-577.	6.0	56
74	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.	6.6	55
75	Organization-Induced Charge Redistribution in Self-Assembled Organic Monolayers on Gold. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14064-14073.	1.2	55
76	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, 6498-6507.	6.6	55
77	Solvent-Mediated Electronic Coupling: The Role of Solvent Placement. <i>Journal of the American Chemical Society</i> , 1999, 121, 10976-10986.	6.6	54
78	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.	1.5	54
79	Probing solute-solvent electrostatic interactions: Rotational diffusion studies of 9,10-disubstituted anthracenes. <i>Journal of Chemical Physics</i> , 1997, 106, 7920-7930.	1.2	53
80	Ligand-Induced Changes in the Characteristic Size-Dependent Electronic Energies of CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22401-22411.	1.5	53
81	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.	1.3	53
82	A Postsynthetic Modification of II-VI Semiconductor Nanoparticles to Create Tb <sup>3+</sup> and Eu <sup>3+</sup> Luminophores. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14451-14460.	1.5	52
83	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.	1.2	51
84	A molecular dynamics study of dielectric friction. <i>Journal of Chemical Physics</i> , 1996, 105, 628-638.	1.2	50
85	Charge Transfer through Single-Stranded Peptide Nucleic Acid Composed of Thymine Nucleotides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7233-7240.	1.5	50
86	Chiral Control of Electron Transmission through Molecules. <i>Physical Review Letters</i> , 2008, 101, 238103.	2.9	49
87	Elemental Core Level Shift in High Entropy Alloy Nanoparticles <i>via</i> X-ray Photoelectron Spectroscopy Analysis and First-Principles Calculation. <i>ACS Nano</i> , 2020, 14, 17704-17712.	7.3	48
88	Solvation and Aggregation of Polyphenylethynylene Based Anionic Polyelectrolytes in Dilute Solutions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8589-8596.	1.2	46
89	Antioxidant Capacity of Nitrogen and Sulfur Codoped Carbon Nanodots. <i>ACS Applied Nano Materials</i> , 2018, 1, 2699-2708.	2.4	46
90	A Test of Dielectric Friction Models. Rotational Diffusion of Fluorenes in Dimethyl sulfoxide. <i>The Journal of Physical Chemistry</i> , 1994, 98, 1386-1393.	2.9	45

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91	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, 10171-10181.	6.6	45
92	The Effect of Ionic Strength on the Electron-Transfer Rate of Surface Immobilized Cytochrome. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5062-5072.	1.2	45
93	Distance Dependence of the Charge Transfer Rate for Peptide Nucleic Acid Monolayers. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14140-14148.	1.2	45
94	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.	6.6	45
95	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.	2.9	44
96	Composite nanoparticle nanoslit arrays: a novel platform for LSPR mediated subwavelength optical transmission. <i>Optics Express</i> , 2010, 18, 7705.	1.7	44
97	Breaking the simple proportionality between molecular conductances and charge transfer rates. <i>Faraday Discussions</i> , 2014, 174, 57-78.	1.6	44
98	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.	1.2	43
99	Electron Tunneling at the Semiconductor/Insulator/Electrolyte Interface. Photocurrent Studies of then-InP/Alkanethiol/Ferrocyanide System. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9015-9028.	1.2	42
100	Denaturation of Cytochrome <i>c</i> and Its Peroxidase Activity When Immobilized on SAM Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1351-1356.	1.5	42
101	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.	1.5	42
102	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.	2.9	41
103	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.	2.9	40
104	Asymmetric reactions induced by electron spin polarization. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21570-21582.	1.3	40
105	Inclusion complexation by bis(cyclodextrins) in the presence of phospholipid vesicles. <i>Journal of the American Chemical Society</i> , 1991, 113, 2325-2327.	6.6	39
106	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.	3.3	39
107	Fluorescence Quenching Mechanism of a Polyphenylene Polyelectrolyte with Other Macromolecules: Cytochrome <i>c</i> and Dendrimers. <i>Langmuir</i> , 2005, 21, 1687-1690.	1.6	38
108	The effect of periodicity on the extraordinary optical transmission of annular aperture arrays. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	38



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109	Effect of Backbone Flexibility on Charge Transfer Rates in Peptide Nucleic Acid Duplexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 9335-9342.	6.6	38
110	Rotational diffusion in electrolyte solutions. <i>Journal of the American Chemical Society</i> , 1993, 115, 9692-9700.	6.6	37
111	Blue-shift of surface plasmon resonance in a metal nanoslit array structure. <i>Optics Express</i> , 2009, 17, 16081.	1.7	37
112	Bacteriorhodopsin based non-magnetic spin filters for biomolecular spintronics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1091-1097.	1.3	37
113	Chiral Induced Spin Selectivity and Its Implications for Biological Functions. <i>Annual Review of Biophysics</i> , 2022, 51, 99-114.	4.5	36
114	Influence of polar solvents on reaction dynamics: photoisomerization studies of dihydroxystilbene. <i>The Journal of Physical Chemistry</i> , 1990, 94, 662-669.	2.9	35
115	Characterization of the Surface to Thiol Bonding in Self-Assembled Monolayer Films of C <sub>12</sub> H <sub>25</sub> SH on InP(100) by Angle-Resolved X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 1999, 15, 8640-8644.	1.6	35
116	Pulse structure studies and absolute cavity length determination for a synchronously pumped picosecond dye laser. <i>Optics Communications</i> , 1980, 34, 127-132.	1.0	34
117	Multiple Sites for Electron Tunneling between Cytochrome <i>c</i> and Mixed Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2514-2521.	1.5	34
118	Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules. <i>Small</i> , 2019, 15, e1804557.	5.2	33
119	Understanding interfacial electron transfer to monolayer protein assemblies. <i>Current Opinion in Solid State and Materials Science</i> , 2005, 9, 28-36.	5.6	32
120	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.	6.6	32
121	Solute-Solvent Frictional Coupling in Electrolyte Solutions. Role of Ion Pairs. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2339-2347.	1.2	31
122	Immobilization of cytochrome <i>c</i> at Au electrodes by association of a pyridine terminated SAM and the heme of cytochrome. <i>Chemical Communications</i> , 2001, , 1032-1033.	2.2	31
123	Impact of self-assembly composition on the alternate interfacial electron transfer for electrostatically immobilized cytochrome <i>c</i> . <i>Biopolymers</i> , 2007, 87, 68-73.	1.2	30
124	A Unified Model for the Electrochemical Rate Constant That Incorporates Solvent Dynamics. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17904-17914.	1.5	30
125	Stable Low-Current Electrodeposition of MnO <sub>2</sub> on Superaligned Electrospun Carbon Nanofibers for High-Performance Energy Storage. <i>Small</i> , 2018, 14, 1703237.	5.2	30
126	Optical Multilevel Spin Bit Device Using Chiral Quantum Dots. <i>Nano Letters</i> , 2020, 20, 8675-8681.	4.5	30



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127	Studies of Electron Tunneling at Semiconductor Electrodes. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9573-9576.	2.9	29
128	Electron Transfer in Aromatic Solvents: The Importance of Quadrupolar Interactions. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9385-9394.	1.1	29
129	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, 11302-11305.	7.2	29
130	High-sensitivity surface plasmon resonance spectroscopy based on a metal nanoslit array. <i>Applied Physics Letters</i> , 2006, 88, 243105.	1.5	28
131	The Effect of Oxygen Heteroatoms on the Single Molecule Conductance of Saturated Chains. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4431-4441.	1.2	28
132	Electron Transfer in Nanoparticle Dyads Assembled on a Colloidal Template. <i>Journal of the American Chemical Society</i> , 2016, 138, 13260-13270.	6.6	28
133	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.	1.6	27
134	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.	1.5	27
135	Spin-Dependent Processes Measured without a Permanent Magnet. <i>Advanced Materials</i> , 2018, 30, e1707390.	11.1	27
136	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.	1.2	26
137	Temperature Dependence of Charge and Spin Transfer in Azurin. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9875-9883.	1.5	26
138	Chiral molecules-ferromagnetic interfaces, an approach towards spin controlled interactions. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	25
139	Directing Charge Transfer in Quantum Dot Assemblies. <i>Accounts of Chemical Research</i> , 2018, 51, 2565-2573.	7.6	24
140	Optimizing the Key Variables to Generate Host Sensitized Lanthanide Doped Semiconductor Nanoparticle Luminophores. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26495-26517.	1.5	24
141	Observation of Dynamic Solvent Effect for Electron Tunneling in U-Shaped Molecules. <i>Journal of the American Chemical Society</i> , 2004, 126, 10778-10786.	6.6	23
142	Using C-Doping to Identify Photocatalytic Properties of Graphitic Carbon Nitride That Govern Antibacterial Efficacy. <i>ACS ES&amp;T Water</i> , 2021, 1, 269-280.	2.3	23
143	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.	1.1	22
144	Charge Density Effects on the Aggregation Properties of Poly( <i>p</i> -phenylene-ethynylene)-Based Anionic Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3300-3310.	1.2	22

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145	Solvent Mediated Coupling Across 1 nm: Not a $\pi$ Bond in Sight. <i>Journal of the American Chemical Society</i> , 2000, 122, 12039-12040.	6.6	21
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