

Jacqueline K Barton

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.

230
papers

26,391
citations

80
h-index

158
g-index

232
ext. papers

27,602
ext. citations

11.9
avg, IF

7.24
L-index

#	Paper	IF	Citations
230	Rhodium Complexes Targeting DNA Mismatches as a Basis for New Therapeutics in Cancers Deficient in Mismatch Repair. <i>Biochemistry</i> , 2021 , 60, 2055-2063	3.2	2
229	DNA Electrochemistry: Charge-Transport Pathways through DNA Films on Gold. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11631-11640	16.4	4
228	The [4Fe4S] Cluster of Yeast DNA Polymerase β s Redox Active and Can Undergo DNA-Mediated Signaling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16147-16153	16.4	1
227	UvrC Coordinates an O-Sensitive [4Fe4S] Cofactor. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10964-10977	16.4	4
226	Cell-Selective Cytotoxicity of a Fluorescent Rhodium Metalloinsertor Conjugate Results from Irreversible DNA Damage at Base Pair Mismatches. <i>Biochemistry</i> , 2020 , 59, 717-726	3.2	7
225	In vivo anticancer activity of a rhodium metalloinsertor in the HCT116 xenograft tumor model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17535-17542	11.5	8
224	Extracellular DNA Promotes Efficient Extracellular Electron Transfer by Pyocyanin in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Cell</i> , 2020 , 182, 919-932.e19	56.2	53
223	Redox Chemistry in the Genome: Emergence of the [4Fe4S] Cofactor in Repair and Replication. <i>Annual Review of Biochemistry</i> , 2019 , 88, 163-190	29.1	28
222	Cellular Target of a Rhodium Metalloinsertor is the DNA Base Pair Mismatch. <i>Chemistry - A European Journal</i> , 2019 , 25, 3014-3019	4.8	7
221	Effective Distance for DNA-Mediated Charge Transport between Repair Proteins. <i>ACS Central Science</i> , 2019 , 5, 65-72	16.8	21
220	A Compass at Weak Magnetic Fields Using Thymine Dimer Repair. <i>ACS Central Science</i> , 2018 , 4, 405-412	16.8	11
219	A Family of Rhodium Complexes with Selective Toxicity toward Mismatch Repair-Deficient Cancers. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5612-5624	16.4	45
218	Nitric Oxide Modulates Endonuclease III Redox Activity by a 800 mV Negative Shift upon [FeS] Cluster Nitrosylation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11800-11810	16.4	18
217	A human MUTYH variant linking colonic polyposis to redox degradation of the [4Fe4S] cluster. <i>Nature Chemistry</i> , 2018 , 10, 873-880	17.6	13
216	Substrate Binding Regulates Redox Signaling in Human DNA Primase. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17153-17162	16.4	6
215	Functional and structural similarity of human DNA primase [4Fe4S] cluster domain constructs. <i>PLoS ONE</i> , 2018 , 13, e0209345	3.7	4
214	Yeast require redox switching in DNA primase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 13186-13191	11.5	10

213	Sensing DNA through DNA Charge Transport. <i>ACS Chemical Biology</i> , 2018 , 13, 1799-1809	4.9	35
212	Electrochemistry of the [4Fe4S] Cluster in Base Excision Repair Proteins: Tuning the Redox Potential with DNA. <i>Langmuir</i> , 2017 , 33, 2523-2530	4	28
211	The [4Fe4S] cluster of human DNA primase functions as a redox switch using DNA charge transport. <i>Science</i> , 2017 , 355,	33.3	82
210	Electrical Probes of DNA-Binding Proteins. <i>Methods in Enzymology</i> , 2017 , 591, 355-414	1.7	3
209	Response to Comments on "The [4Fe4S] cluster of human DNA primase functions as a redox switch using DNA charge transport". <i>Science</i> , 2017 , 357,	33.3	4
208	Sulfur K-Edge XAS Studies of the Effect of DNA Binding on the [FeS] Site in EndoIII and MutY. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11434-11442	16.4	17
207	The Oxidation State of [4Fe4S] Clusters Modulates the DNA-Binding Affinity of DNA Repair Proteins. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12784-12792	16.4	29
206	A Redox Role for the [4Fe4S] Cluster of Yeast DNA Polymerase α . <i>Journal of the American Chemical Society</i> , 2017 , 139, 18339-18348	16.4	28
205	A Rhodium-Cyanine Fluorescent Probe: Detection and Signaling of Mismatches in DNA. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17301-17304	16.4	27
204	A Ruthenium(II) Complex as a Luminescent Probe for DNA Mismatches and Abasic Sites. <i>Inorganic Chemistry</i> , 2017 , 56, 8381-8389	5.1	37
203	Rhodium metalloinsertor binding generates a lesion with selective cytotoxicity for mismatch repair-deficient cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6948-6953	11.5	8
202	DNA Sensors Using DNA Charge Transport Chemistry 2017 , 105-120		
201	15 DNA signaling by iron-sulfur cluster proteins 2017 ,		2
200	Characterization of the DNA-Mediated Oxidation of Dps, A Bacterial Ferritin. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11290-8	16.4	9
199	Helix-Dependent Spin Filtering through the DNA Duplex. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15551-15554	16.4	80
198	DNA Charge Transport: from Chemical Principles to the Cell. <i>Cell Chemical Biology</i> , 2016 , 23, 183-197	8.2	95
197	Targeting DNA Mismatches with Rhodium Metalloinsertors. <i>Inorganica Chimica Acta</i> , 2016 , 452, 3-11	2.7	27
196	[Ru(Me4phen)2dppz](2+), a Light Switch for DNA Mismatches. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5020-3	16.4	63

195	Redox Signaling through DNA. <i>Israel Journal of Chemistry</i> , 2016 , 56, 705-723	3.4	13
194	A Multiplexed, Two-Electrode Platform for Biosensing Based on DNA-Mediated Charge Transport. <i>Langmuir</i> , 2015 , 31, 6554-62	4	23
193	DNA Electrochemistry Shows DNMT1 Methyltransferase Hyperactivity in Colorectal Tumors. <i>Chemistry and Biology</i> , 2015 , 22, 938-45		19
192	A monofunctional platinum complex coordinated to a rhodium metalloinsertor selectively binds mismatched DNA in the minor groove. <i>Inorganic Chemistry</i> , 2015 , 54, 9626-36	5.1	16
191	Oxidation of p53 through DNA charge transport involves a network of disulfides within the DNA-binding domain. <i>Biochemistry</i> , 2015 , 54, 932-41	3.2	6
190	DNA charge transport within the cell. <i>Biochemistry</i> , 2015 , 54, 962-73	3.2	49
189	DNA-mediated signaling by proteins with 4Fe-4S clusters is necessary for genomic integrity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6470-8	16.4	48
188	An unusual ligand coordination gives rise to a new family of rhodium metalloinsertors with improved selectivity and potency. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14160-72	16.4	31
187	Electrocatalysis in DNA Sensors. <i>Polyhedron</i> , 2014 , 84, 150-159	2.7	25
186	DNA-mediated oxidation of p53. <i>Biochemistry</i> , 2014 , 53, 3467-75	3.2	15
185	Label-free electrochemical detection of human methyltransferase from tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14985-9	11.5	53
184	Construction and application of a Rh-Pt DNA metalloinsertor conjugate. <i>Inorganic Chemistry</i> , 2014 , 53, 7812-4	5.1	14
183	Targeted Chemotherapy with Metal Complexes. <i>Comments on Inorganic Chemistry</i> , 2014 , 34, 114-123	3.9	24
182	DNA protection by the bacterial ferritin Dps via DNA charge transport. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15726-9	16.4	21
181	Electrochemical assay for the signal-on detection of human DNA methyltransferase activity. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16632-40	16.4	93
180	Intraduplex DNA-mediated electrochemistry of covalently tethered redox-active reporters. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14944-7	16.4	25
179	Multiplexed electrochemistry of DNA-bound metalloproteins. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11869-78	16.4	34
178	The path for metal complexes to a DNA target. <i>Chemical Communications</i> , 2013 , 49, 3617-30	5.8	272

177	DNA-modified electrodes fabricated using copper-free click chemistry for enhanced protein detection. <i>Langmuir</i> , 2013 , 29, 16141-9	4	28
176	Electrochemical patterning and detection of DNA arrays on a two-electrode platform. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19099-102	16.4	50
175	Biological effects of simple changes in functionality on rhodium metalloinsertors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120117	3	12
174	An inducible, isogenic cancer cell line system for targeting the state of mismatch repair deficiency. <i>PLoS ONE</i> , 2013 , 8, e78726	3.7	12
173	DNA electrochemistry with tethered methylene blue. <i>Langmuir</i> , 2012 , 28, 7063-70	4	91
172	DNA sensing by electrocatalysis with hemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11528-33	11.5	29
171	Transducing methyltransferase activity into electrical signals in a carbon nanotube-DNA device(). <i>Chemical Science</i> , 2012 , 3, 62-65	9.4	43
170	Luminescent properties of ruthenium(II) complexes with sterically expansive ligands bound to DNA defects. <i>Inorganic Chemistry</i> , 2012 , 51, 12511-20	5.1	69
169	Solution, surface, and single molecule platforms for the study of DNA-mediated charge transport. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13754-71	3.6	54
168	DNA charge transport for sensing and signaling. <i>Accounts of Chemical Research</i> , 2012 , 45, 1792-800	24.3	90
167	Cell-selective biological activity of rhodium metalloinsertors correlates with subcellular localization. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19223-33	16.4	66
166	DNA charge transport as a first step in coordinating the detection of lesions by repair proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1856-61	11.5	80
165	Crystal structure of $[Ru(bpy)_2ppz]^+$ bound to mismatched DNA reveals side-by-side metalloinsertion and intercalation. <i>Nature Chemistry</i> , 2012 , 4, 615-20	17.6	234
164	Single-step charge transport through DNA over long distances. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3863-8	16.4	48
163	Using metal complex reduced states to monitor the oxidation of DNA. <i>Inorganic Chemistry</i> , 2011 , 50, 12034-44	5.1	14
162	Selective cytotoxicity of rhodium metalloinsertors in mismatch repair-deficient cells. <i>Biochemistry</i> , 2011 , 50, 10919-28	3.2	46
161	DNA charge transport over 34 nm. <i>Nature Chemistry</i> , 2011 , 3, 228-33	17.6	268
160	Metal Complexes for DNA-Mediated Charge Transport. <i>Coordination Chemistry Reviews</i> , 2011 , 255, 619-634	17.6	126

159	Mutants of the base excision repair glycosylase, endonuclease III: DNA charge transport as a first step in lesion detection. <i>Biochemistry</i> , 2011 , 50, 6133-45	3.2	37
158	Charge photoinjection in intercalated and covalently bound [Re(CO) ₃ (dppz)(py)] ⁺ -DNA constructs monitored by time-resolved visible and infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13718-30	16.4	49
157	ATP-stimulated, DNA-mediated redox signaling by XPD, a DNA repair and transcription helicase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16378-81	16.4	52
156	Mechanisms for DNA charge transport. <i>Chemical Reviews</i> , 2010 , 110, 1642-62	68.1	618
155	DNA-mediated electron transfer in naphthalene-modified oligonucleotides. <i>Journal of Organic Chemistry</i> , 2010 , 75, 2423-8	4.2	27
154	DNA-mediated charge transport in redox sensing and signaling. <i>Journal of the American Chemical Society</i> , 2010 , 132, 891-905	16.4	138
153	Multiplexed DNA-modified electrodes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2769-74	16.4	71
152	Targeting a ruthenium complex to the nucleus with short peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 3564-9	3.4	102
151	Redox signaling between DNA repair proteins for efficient lesion detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15237-42	11.5	101
150	DNA-mediated redox signaling for transcriptional activation of SoxR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13164-8	11.5	46
149	DNA mismatch binding and antiproliferative activity of rhodium metalloinsertors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2359-66	16.4	64
148	A bulky rhodium complex bound to an adenosine-adenosine DNA mismatch: general architecture of the metalloinsertion binding mode. <i>Biochemistry</i> , 2009 , 48, 4247-53	3.2	65
147	Common mitochondrial DNA mutations generated through DNA-mediated charge transport. <i>Biochemistry</i> , 2009 , 48, 660-6	3.2	12
146	Recognition of abasic sites and single base bulges in DNA by a metalloinsertor. <i>Biochemistry</i> , 2009 , 48, 839-49	3.2	53
145	Sensitivity of Ru(bpy) ₂ dppz ²⁺ luminescence to DNA defects. <i>Inorganic Chemistry</i> , 2009 , 48, 5392-7	5.1	107
144	Fluorescein redirects a ruthenium-octaarginine conjugate to the nucleus. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8738-9	16.4	231
143	Conductivity of a single DNA duplex bridging a carbon nanotube gap. <i>Nature Nanotechnology</i> , 2008 , 3, 163-7	28.7	287
142	Electrical detection of TATA binding protein at DNA-modified microelectrodes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2924-5	16.4	76

141	DNA-mediated electrochemistry. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2285-96	6.3	135
140	Scanning electrochemical microscopy of DNA monolayers modified with Nile Blue. <i>Langmuir</i> , 2008 , 24, 14282-8	4	36
139	Mechanism of cellular uptake of a ruthenium polypyridyl complex. <i>Biochemistry</i> , 2008 , 47, 11711-6	3.2	274
138	DNA binding shifts the redox potential of the transcription factor SoxR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3684-9	11.5	57
137	Charge migration along the DNA duplex: hole versus electron transport. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1152-3	16.4	71
136	DNA oxidation by charge transport in mitochondria. <i>Biochemistry</i> , 2008 , 47, 1511-7	3.2	27
135	Targeting abasic sites and single base bulges in DNA with metalloinsertors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7530-1	16.4	72
134	Back-electron transfer suppresses the periodic length dependence of DNA-mediated charge transport across adenine tracts. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15150-6	16.4	26
133	Binding of Ru(bpy) ₂ (eilatrin) ₂ ²⁺ to matched and mismatched DNA. <i>Inorganic Chemistry</i> , 2008 , 47, 6452-7	5.1	28
132	Redmond Red as a redox probe for the DNA-mediated detection of abasic sites. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2110-2	6.3	33
131	Metallointercalators as Probes of DNA Recognition and Reactions 2008 , 1		4
130	Ping-pong electron transfer through DNA. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9067-70	16.4	43
129	Biological contexts for DNA charge transport chemistry. <i>Current Opinion in Chemical Biology</i> , 2008 , 12, 229-37	9.7	106
128	Long-range electron and hole transport through DNA with tethered cyclometalated iridium(III) complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14733-8	16.4	85
127	Insertion of a bulky rhodium complex into a DNA cytosine-cytosine mismatch: an NMR solution study. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12287-95	16.4	58
126	Oxidation by DNA charge transport damages conserved sequence block II, a regulatory element in mitochondrial DNA. <i>Biochemistry</i> , 2007 , 46, 2805-11	3.2	11
125	Differential ionic permeation of DNA-modified electrodes. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 663-8	3.4	30
124	Coupling into the base pair stack is necessary for DNA-mediated electrochemistry. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1434-41	6.3	56

123	Distance-independent DNA charge transport across an adenine tract. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5731-3	16.4	53
122	DNA repair glycosylases with a [4Fe-4S] cluster: a redox cofactor for DNA-mediated charge transport?. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 1913-21	4.2	43
121	DNA base mismatch detection with bulky rhodium intercalators: synthesis and applications. <i>Nature Protocols</i> , 2007 , 2, 357-71	18.8	49
120	Insights into finding a mismatch through the structure of a mispaired DNA bound by a rhodium intercalator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 429-34	11.5	103
119	A role for DNA-mediated charge transport in regulating p53: Oxidation of the DNA-bound protein from a distance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18907-12	11.5	42
118	DNA strand cleavage near a CC mismatch directed by a metalloinsertor. <i>Inorganic Chemistry</i> , 2007 , 46, 9528-30	5.1	17
117	Synthesis and characterization of iridium(III) cyclometalated complexes with oligonucleotides: insights into redox reactions with DNA. <i>Inorganic Chemistry</i> , 2007 , 46, 10187-99	5.1	67
116	Metallo-intercalators and metallo-insertors. <i>Chemical Communications</i> , 2007 , 4565-79	5.8	689
115	DNA-mediated electrochemistry of disulfides on graphite. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6074-5	16.4	27
114	Electron trap for DNA-bound repair enzymes: a strategy for DNA-mediated signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3610-4	11.5	46
113	DNA mismatch-specific targeting and hypersensitivity of mismatch-repair-deficient cells to bulky rhodium(III) intercalators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 15359-63	11.5	56
112	Electrochemistry using self-assembled DNA monolayers on highly oriented pyrolytic graphite. <i>Langmuir</i> , 2006 , 22, 7917-22	4	73
111	Direct electrochemistry of endonuclease III in the presence and absence of DNA. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12082-3	16.4	67
110	Sequence-Dependent DNA Dynamics: The Regulator of DNA-Mediated Charge Transport 2006 , 27-75		3
109	A mismatch-selective bifunctional rhodium-Oregon Green conjugate: a fluorescent probe for mismatched DNA. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5654-5	16.4	50
108	DNA-bound redox activity of DNA repair glycosylases containing [4Fe-4S] clusters. <i>Biochemistry</i> , 2005 , 44, 8397-407	3.2	150
107	DNA charge transport leading to disulfide bond formation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12204-5	16.4	24
106	Reductive and oxidative DNA damage by photoactive platinum(II) intercalators. <i>Inorganic Chemistry</i> , 2005 , 44, 7970-80	5.1	56

105	Sequence dependence of charge transport through DNA domains. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17445-52	16.4	72
104	Electrochemical detection of lesions in DNA. <i>Bioconjugate Chemistry</i> , 2005 , 16, 312-21	6.3	103
103	DNA electrochemistry through the base pairs not the sugar-phosphate backbone. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10160-1	16.4	90
102	Electrically monitoring DNA repair by photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10788-92	11.5	53
101	Protein-DNA charge transport: redox activation of a DNA repair protein by guanine radical. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3546-51	11.5	112
100	Long-range oxidative damage to cytosines in duplex DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17914-9	11.5	72
99	Charge equilibration between two distinct sites in double helical DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10511-6	11.5	39
98	Tuning the DNA reactivity of cis-platinum: conjugation to a mismatch-specific metallointercalator. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14728-9	16.4	45
97	Direct chemical evidence for charge transfer between photoexcited 2-aminopurine and guanine in duplex DNA. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1316-7	16.4	92
96	Bifunctional rhodium intercalator conjugates as mismatch-directing DNA alkylating agents. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8630-1	16.4	35
95	Electron transfer rates in DNA films as a function of tether length. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15010-1	16.4	100
94	Effects of the photooxidant on DNA-mediated charge transport. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8148-58	16.4	80
93	DNA-mediated charge transport requires conformational motion of the DNA bases: elimination of charge transport in rigid glasses at 77 K. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13234-5	16.4	93
92	DNA charge transport: conformationally gated hopping through stacked domains. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11471-83	16.4	190
91	[Ru(bpy) ₂ (L)]Cl ₂ : luminescent metal complexes that bind DNA base mismatches. <i>Inorganic Chemistry</i> , 2004 , 43, 4570-8	5.1	116
90	DNA-Mediated Charge Transport Chemistry and Biology. <i>Topics in Current Chemistry</i> , 2004 , 67-115		49
89	A rhodium(III) complex for high-affinity DNA base-pair mismatch recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3737-42	11.5	82
88	Ultrafast Dynamics in DNA-Mediated Electron Transfer: Base Gating and the Role of Temperature. <i>Angewandte Chemie</i> , 2003 , 115, 6076-6080	3.6	24

87	Ultrafast dynamics in DNA-mediated electron transfer: base gating and the role of temperature. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5896-900	16.4	127
86	Electrochemical DNA sensors. <i>Nature Biotechnology</i> , 2003 , 21, 1192-9	44.5	1851
85	DNA electrochemistry as a probe of base pair stacking in A-, B-, and Z-form DNA. <i>Bioconjugate Chemistry</i> , 2003 , 14, 1140-7	6.3	64
84	Reduction of Ferricyanide by Methylene Blue at a DNA-Modified Rotating-Disk Electrode. <i>Langmuir</i> , 2003 , 19, 9255-9259	4	63
83	In situ scanning tunneling microscopy of DNA-modified gold surfaces: bias and mismatch dependence. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14964-5	16.4	51
82	Intercalative Stacking: A Critical Feature of DNA Charge-Transport Electrochemistry. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11805-11812	3.4	92
81	Rapid radical formation by DNA charge transport through sequences lacking intervening guanines. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6640-1	16.4	43
80	DNA-mediated charge transport for DNA repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12543-7	11.5	194
79	Charge transport in DNA. <i>Current Opinion in Structural Biology</i> , 2002 , 12, 320-9	8.1	193
78	An Electrochemical Probe of DNA Stacking in an Antisense Oligonucleotide Containing a C3'-endo-Locked Sugar. <i>Angewandte Chemie</i> , 2002 , 114, 3552-3555	3.6	
77	An electrochemical probe of DNA stacking in an antisense oligonucleotide containing a C3'endo-locked sugar. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3402-5	16.4	43
76	Charge transport through a molecular stack: double helical DNA. <i>Chemical Physics</i> , 2002 , 281, 409-428	2.3	144
75	An electrical probe of protein-DNA interactions on DNA-modified surfaces. <i>Nature Biotechnology</i> , 2002 , 20, 282-6	44.5	204
74	Oxidative charge transport through DNA in nucleosome core particles. <i>Chemistry and Biology</i> , 2002 , 9, 403-15		89
73	¹ H NMR determination of base-pair lifetimes in oligonucleotides containing single base mismatches. <i>Nucleic Acids Research</i> , 2002 , 30, 4740-50	20.1	66
72	The effect of varied ion distributions on long-range DNA charge transport. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1840-1	16.4	25
71	DNA-mediated charge transport as a probe of MutY/DNA interaction. <i>Biochemistry</i> , 2002 , 41, 8464-70	3.2	35
70	DNA mediated charge transport: characterization of a DNA radical localized at an artificial nucleic acid base. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9083-92	16.4	48

69	Oxidative damage by ruthenium complexes containing the dipyridophenazine ligand or its derivatives: a focus on intercalation. <i>Inorganic Chemistry</i> , 2002 , 41, 1966-74	5.1	207
68	2-Aminopurine: a probe of structural dynamics and charge transfer in DNA and DNA:RNA hybrids. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13053-66	16.4	98
67	Effects of strand and directional asymmetry on base-base coupling and charge transfer in double-helical DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 16543-50	11.5	66
66	Morphology of 15-mer Duplexes Tethered to Au(111) Probed Using Scanning Probe Microscopy. <i>Langmuir</i> , 2001 , 17, 5727-5730	4	56
65	Long-range oxidative damage in DNA/RNA duplexes. <i>Biochemistry</i> , 2001 , 40, 8727-37	3.2	43
64	Influence of intervening mismatches on long-range guanine oxidation in DNA duplexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8649-56	16.4	140
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