

Robert Bittl

List of Publications by Year in descending order

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174
papers

7,625
citations

31976

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77
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185
all docs

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docs citations

185
times ranked

5748
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryptochrome Blue Light Photoreceptors Are Activated through Interconversion of Flavin Redox States. <i>Journal of Biological Chemistry</i> , 2007, 282, 9383-9391.	3.4	349
2	The Signaling State of Arabidopsis Cryptochrome 2 Contains Flavin Semiquinone. <i>Journal of Biological Chemistry</i> , 2007, 282, 14916-14922.	3.4	227
3	Strongly exchange-coupled triplet pairs in an organic semiconductor. <i>Nature Physics</i> , 2017, 13, 176-181.	16.7	182
4	Radicals, Radical Pairs and Triplet States in Photosynthesis. <i>Accounts of Chemical Research</i> , 2002, 35, 313-320.	15.6	161
5	Correlated Donor/Acceptor Crystal Orientation Controls Photocurrent Generation in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 4068-4081.	14.9	144
6	Human and Drosophila Cryptochromes Are Light Activated by Flavin Photoreduction in Living Cells. <i>PLoS Biology</i> , 2008, 6, e160.	5.6	136
7	On the Reaction Mechanism of Adduct Formation in LOV Domains of the Plant Blue-Light Receptor Phototropin. <i>Journal of the American Chemical Society</i> , 2004, 126, 11067-11076.	13.7	127
8	How carotenoids protect bacterial photosynthesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 1345-1349.	4.0	124
9	Tryptophan and Tyrosine Radicals in Ribonucleotide Reductase: A Comparative High-Field EPR Study at 94 GHz. <i>Biochemistry</i> , 2001, 40, 15362-15368.	2.5	121
10	Electronic Structure of Antiferromagnetically Coupled Dinuclear Manganese (MnIII/MnIV) Complexes Studied by Magnetic Resonance Techniques. <i>Journal of the American Chemical Society</i> , 1998, 120, 13104-13120.	13.7	120
11	Time-Resolved X-, K-, and W-Band EPR of the Radical Pair State of Photosystem I in Comparison with in Bacterial Reaction Centers. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1437-1443.	2.6	118
12	Magnetic-field effect on the photoactivation reaction of <i>Escherichia coli</i> DNA photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14395-14399.	7.1	113
13	Time-resolved W-band (95 GHz) EPR spectroscopy of Zn-substituted reaction centers of <i>Rhodobacter sphaeroides</i> R-26. <i>Chemical Physics</i> , 1995, 194, 361-370.	1.9	110
14	EPR Study of the Molecular and Electronic Structure of the Semiquinone Biradical QA-QB in Photosynthetic Reaction Centers from <i>Rhodobactersphaeroides</i> . <i>Journal of the American Chemical Society</i> , 2000, 122, 7327-7341.	13.7	110
15	Pulsed EPR Study of Spin-Coupled Radical Pairs in Photosynthetic Reaction Centers: A Measurement of the Distance Between and in Photosystem I and between and in Bacterial Reaction Centers. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1429-1436.	2.6	108
16	A single-crystal ENDOR and density functional theory study of the oxidized states of the [NiFe] hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 41-51.	2.6	103
17	Electronic Structure of Neutral Tryptophan Radicals in Ribonucleotide Reductase Studied by EPR and ENDOR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1996, 118, 8111-8120.	13.7	101
18	Transient EPR of light-induced radical pairs in plant photosystem I: observation of quantum beats. <i>Chemical Physics Letters</i> , 1991, 186, 474-480.	2.6	100

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19	Pulsed Electronâ€”Electron Double Resonance on Multinuclear Metal Clusters:Â Assignment of Spin Projection Factors Based on the Dipolar Interaction. <i>Journal of the American Chemical Society</i> , 2002, 124, 12606-12611.	13.7	96
20	Signal transduction in lightâ€“oxygenâ€“voltage receptors lacking the adduct-forming cysteine residue. <i>Nature Communications</i> , 2015, 6, 10079.	12.8	86
21	Assembly of Photosystem I. <i>Journal of Biological Chemistry</i> , 2002, 277, 20355-20366.	3.4	85
22	Reversible [4Fe-3S] cluster morphing in an O2-tolerant [NiFe] hydrogenase. <i>Nature Chemical Biology</i> , 2014, 10, 378-385.	8.0	85
23	Recruitment of a Foreign Quinone into the A1 Site of Photosystem I. <i>Journal of Biological Chemistry</i> , 2000, 275, 8531-8539.	3.4	83
24	Pulsed EPR Structure Analysis of Photosystem I Single Crystals:Â Localization of the Phylloquinone Acceptorâ€“. <i>Biochemistry</i> , 1997, 36, 12001-12004.	2.5	82
25	Electron Transfer in Cyanobacterial Photosystem I. <i>Journal of Biological Chemistry</i> , 2003, 278, 27864-27875.	3.4	81
26	Photosystem II single crystals studied by EPR spectroscopy at 94 GHz: The tyrosine radical YFormula. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6623-6628.	7.1	79
27	Transient EPR of radical pairs in photosynthetic reaction centers: prediction of quantum beats. <i>Chemical Physics Letters</i> , 1991, 177, 547-553.	2.6	78
28	A blue light receptor that mediates RNA binding and translational regulation. <i>Nature Chemical Biology</i> , 2019, 15, 1085-1092.	8.0	76
29	A Structural Model for the Charge Separated State in Photosystem I from the Orientation of the Magnetic Interaction Tensors. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9728-9739.	2.6	75
30	Radicals and Radical Pairs in Photosynthesis. <i>Photochemistry and Photobiology</i> , 1996, 63, 11-38.	2.5	74
31	Phenoxyl Radicals Hydrogen-Bonded to Imidazolium: Analogues of Tyrosyl D. of Photosystem II: High-Field EPR and DFT Studies. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5314-5317.	13.8	73
32	Direct detection of photoinduced charge transfer complexes in polymer fullerene blends. <i>Physical Review B</i> , 2012, 85, .	3.2	70
33	Mutations in Both Sides of the Photosystem I Reaction Center Identify the Phylloquinone Observed by Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Biological Chemistry</i> , 2001, 276, 37299-37306.	3.4	67
34	Transient radical pairs studied by time-resolved EPR. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1707, 117-126.	1.0	66
35	Pulsed EPR spectroscopy on short-lived intermediates in Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1507, 194-211.	1.0	65
36	Recruitment of a Foreign Quinone into the A1 Site of Photosystem I. <i>Journal of Biological Chemistry</i> , 2001, 276, 39512-39521.	3.4	65

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37	Probing the Active Site of an O ₂ -Tolerant NAD ⁺ -Reducing [NiFe]Hydrogenase from <i>Ralstonia eutropha</i> H16 by In-Situ EPR and FTIR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8026-8029.	13.8	65
38	Transient EPR spectroscopy of the charge separated state P+Q ^{•+} in photosynthetic reaction centers. Comparison of Zn-substituted <i>Rhodobacter sphaeroides</i> R-26 and Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1142, 23-35.	1.0	64
39	Single-Molecule Spectroscopy on Photosystem I Pigment-Protein Complexes. <i>Journal of Physical Chemistry B</i> , 2000, 104, 8093-8096.	2.6	62
40	Charge Separation in PCPDTBT:PCBM Blends from an EPR Perspective. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28482-28493.	3.1	61
41	Time-resolved EPR of the radical pair P865 ⁺ .QA ^{•-} in bacterial reaction centers. Observations of transient nutations, quantum beats and envelope modulation effects. <i>Chemical Physics Letters</i> , 1994, 226, 349-358.	2.6	60
42	Pulsed EPR measurement of the distance between P680 ⁺ and QA ^{•-} in photosystem II. <i>FEBS Letters</i> , 1997, 414, 454-456.	2.8	60
43	Multifrequency EPR Investigation of Dimanganese Catalase and Related Mn(III)Mn(IV) Complexes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1242-1250.	2.6	60
44	SLN for topical application in skin diseases—Characterization of drug-carrier and carrier-target interactions. <i>International Journal of Pharmaceutics</i> , 2010, 390, 225-233.	5.2	60
45	Structural differences between the closed and open states of channelrhodopsin-2 as observed by EPR spectroscopy. <i>FEBS Letters</i> , 2013, 587, 3309-3313.	2.8	60
46	Transient EPR spectroscopy of perdeuterated Zn-substituted reaction centres of <i>Rhodobacter sphaeroides</i> R-26. <i>Chemical Physics Letters</i> , 1993, 212, 561-568.	2.6	59
47	Fluorescence Studies into the Effect of Plasmonic Interactions on Protein Function. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 10217-10220.	13.8	59
48	The Photoinduced Triplet of Flavins and Its Protonation States. <i>Journal of the American Chemical Society</i> , 2004, 126, 11393-11399.	13.7	58
49	Cellular Metabolites Enhance the Light Sensitivity of <i>Arabidopsis</i> Cryptochrome through Alternate Electron Transfer Pathways. <i>Plant Cell</i> , 2014, 26, 4519-4531.	6.6	58
50	Metastable Defect Formation at Microvoids Identified as a Source of Light-Induced Degradation in Si^{\sim} . <i>Physical Review Letters</i> , 2014, 112, 066403.	7.8	57
51	Insertional Inactivation of the <i>hemG</i> Gene, Encoding 2-Phytyl-1,4-Naphthoquinone Methyltransferase of <i>Synechocystis</i> sp. PCC 6803, Results in the Incorporation of 2-Phytyl-1,4-Naphthoquinone into the A1 Site and Alteration of the Equilibrium Constant between A1 and FX in Photosystem I. <i>Biochemistry</i> , 2002, 41, 394-405.	2.5	56
52	Cobalt-Exchanged Poly(Heptazine Imides) as Transition Metal-N _x Electrocatalysts for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e1903942.	21.0	56
53	EPR and ENDOR studies of the water oxidizing complex of Photosystem II. <i>Photosynthesis Research</i> , 1996, 48, 227-237.	2.9	55
54	Transient EPR and Absorption Studies of Carotenoid Triplet Formation in Purple Bacterial Antenna Complexes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5525-5535.	2.6	53

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55	g-Tensor of the Neutral Flavin Radical Cofactor of DNA Photolyase Revealed by 360-GHz Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8885-8890.	2.6	53
56	Frequency domain Fourier transform THz-EPR on single molecule magnets using coherent synchrotron radiation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6820.	2.8	53
57	Pulsed EPR experiments on radical pairs in photosynthesis: Comparison of the donor-acceptor distances in photosystem I and bacterial reaction centers. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996, 100, 2041-2044.	0.9	51
58	Comparative Study of Carotenoids, Catalase and Radical Formation in Human and Animal Skin. <i>Skin Pharmacology and Physiology</i> , 2010, 23, 306-312.	2.5	51
59	Characterization of a Flavin Radical Product in a C57M Mutant of a LOV1 Domain by Electron Paramagnetic Resonance. <i>Biochemistry</i> , 2003, 42, 8506-8512.	2.5	50
60	Spectral Diffusion Induced by Proton Dynamics in Pigment-Protein Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 17487-17493.	13.7	50
61	Protein dynamics-induced variation of excitation energy transfer pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11857-11861.	7.1	50
62	A linear single-molecule magnet based on [RuIII(CN)6]3-. <i>Chemical Communications</i> , 2011, 47, 6918.	4.1	50
63	Lifetimes of Arabidopsis cryptochrome signaling states <i>in vivo</i> . <i>Plant Journal</i> , 2013, 74, 583-592.	5.7	48
64	Determination of the Distance between the Two Neutral Flavin Radicals in Augmenter of Liver Regeneration by Pulsed ELDOR. <i>Journal of the American Chemical Society</i> , 2006, 128, 76-77.	13.7	46
65	High-field EPR investigations of MnIII/MnIV and MnII/MnIII states of dimanganese catalase and related model systems. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, S51-S64.	1.9	45
66	Recent progress in synchrotron-based frequency-domain Fourier-transform THz-EPR. <i>Journal of Magnetic Resonance</i> , 2017, 280, 10-19.	2.1	44
67	Hyperfine structure of the photoexcited triplet state 3P680 in plant PS II reaction centres as determined by pulse ENDOR spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1605, 35-46.	1.0	43
68	The Quinone Acceptor A1 in Photosystem I: Binding Site, and Comparison to QA in Purple Bacteria Reaction Centers. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8278-8287.	2.6	41
69	Electronic structure of the tyrosine D radical and the water-splitting complex from pulsed ENDOR spectroscopy on photosystem II single crystals. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6715.	2.8	41
70	Assignment of Red Antenna States in Photosystem I from <i>Thermosynechococcus elongatus</i> by Single-Molecule Spectroscopy. <i>Biochemistry</i> , 2007, 46, 799-806.	2.5	40
71	Interaction of drug molecules with carrier systems as studied by piezoelectric spectroscopy and electron spin resonance. <i>Journal of Controlled Release</i> , 2007, 119, 128-135.	9.9	40
72	Impact of morphology on polaron delocalization in a semicrystalline conjugated polymer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3627-3639.	2.8	39

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73	Site-selective measurement of coupled spin pairs in an organic semiconductor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5077-5082.	7.1	39
74	Title is missing!. Photosynthesis Research, 1998, 55, 189-197.	2.9	38
75	Probing the N(5)H Bond of the Isoalloxazine Moiety of Flavin Radicals by X- and W-Band Pulsed Electron-Nuclear Double Resonance. ChemPhysChem, 2005, 6, 292-299.	2.1	37
76	Zero-field splittings in metHb and metMb with aquo and fluoro ligands: a FD-FT THz-EPR study. Molecular Physics, 2013, 111, 2696-2707.	1.7	36
77	Skin penetration enhancement of core-multishell nanotransporters and invasomes measured by electron paramagnetic resonance spectroscopy. International Journal of Pharmaceutics, 2011, 416, 223-8.	5.2	35
78	Measurement of Cofactor Distances between P700 ⁺ and A1 ⁺ in Native and Quinone-Substituted Photosystem I Using Pulsed Electron Paramagnetic Resonance Spectroscopy. Biochemistry, 1997, 36, 9774-9779.	2.5	34
79	Pigmentation Chemistry and Radical-Based Collagen Degradation in Alkaptonuria and Osteoarthritic Cartilage. Angewandte Chemie - International Edition, 2020, 59, 11937-11942.	13.8	34
80	Length dependence of the magnetic field modulated triplet yield of photogenerated biradicals. Chemical Physics Letters, 1988, 146, 58-62.	2.6	33
81	The Radical Pair State in Photosystem I Single Crystals: Orientation Dependence of the Transient Spin-Polarized EPR Spectra. Journal of Physical Chemistry B, 1998, 102, 8266-8277.	2.6	33
82	Hindered Rotation of a Cofactor Methyl Group as a Probe for Protein-Cofactor Interaction. Journal of the American Chemical Society, 2010, 132, 8935-8944.	13.7	33
83	Biophysical, Mutational, and Functional Investigation of the Chromophore-Binding Pocket of Light-Oxygen-Voltage Photoreceptors. ACS Synthetic Biology, 2014, 3, 811-819.	3.8	33
84	Combining crystallography and EPR: crystal and solution structures of the multidomain cochaperone DnaJ. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1540-1552.	2.5	32
85	Determination of Radical-Radical Distances in Light-Active Proteins and Their Implication for Biological Magnetoreception. Angewandte Chemie - International Edition, 2017, 56, 8550-8554.	13.8	32
86	Transient and pulsed EPR spectroscopy on the radical pair state P 865 + . Q A [•] . to study light-induced changes in bacterial reaction centers. Applied Magnetic Resonance, 1997, 13, 517-529.	1.2	31
87	Combined multifrequency EPR and DFT study of dangling bonds in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-Si:H}$. Physical Review B, 2011, 84, .	3.2	31
88	Single Amino Acid Substitution Reveals Latent Photolyase Activity in <i>Arabidopsis</i> cry1. Angewandte Chemie - International Edition, 2012, 51, 9356-9360.	13.8	31
89	Probing the dynamics of a polymer with paramagnetic end groups by magnetic fields. Journal of Chemical Physics, 1986, 84, 5155-5161.	3.0	30
90	Electron Paramagnetic Resonance Studies of Zinc-Substituted Reaction Centers from <i>Rhodospseudomonas viridis</i> . Biochemistry, 1999, 38, 11773-11787.	2.5	30

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91	Determination of the distance between Yoxâ€¦ Z and Qâˆ™â€¦ A in photosystem II by pulsed EPR spectroscopy on light-induced radical pairs. FEBS Letters, 1999, 442, 79-82.	2.8	30
92	Characterization of de novo synthesized four-helix bundle proteins with metalloporphyrin cofactors. Physical Chemistry Chemical Physics, 2001, 3, 4082-4090.	2.8	30
93	High-frequency EPR studies on cofactor radicals in photosystem I. Applied Magnetic Resonance, 2001, 21, 363-379.	1.2	30
94	Red Pool Chlorophylls of Photosystem I of the Cyanobacterium <i>Thermosynechococcus elongatus</i> : A Single-Molecule Study. Biochemistry, 2006, 45, 1454-1458.	2.5	30
95	Red Antenna States of Photosystem I from <i>Synechocystis</i> PCC 6803. Biochemistry, 2008, 47, 5536-5543.	2.5	30
96	Role of the Hydrogen Bond from Leu722 to the A_{1A} Phylloquinone in Photosystem I. Biochemistry, 2009, 48, 3315-3324.	2.5	29
97	Photosystem II single crystals studied by transient EPR: the light-induced triplet state. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1605, 47-54.	1.0	27
98	A static ensemble approximation for stochastically modulated quantum systems. Journal of Chemical Physics, 1989, 90, 1794-1803.	3.0	26
99	Pulsed ENDOR Studies of Short-Lived Spin-Correlated Radical Pairs in Photosynthetic Reaction Centers. Journal of Physical Chemistry B, 2002, 106, 9679-9686.	2.6	26
100	Structure of the Pyrroloquinoline Quinone Radical in Quinoprotein Ethanol Dehydrogenase. Journal of Biological Chemistry, 2006, 281, 1470-1476.	3.4	26
101	The Electronic State of Flavoproteins: Investigations with Proton Electronâ€“Nuclear Double Resonance. Applied Magnetic Resonance, 2010, 37, 339-352.	1.2	26
102	Blue-light reception through quaternary transitions. Scientific Reports, 2017, 7, 1385.	3.3	25
103	Assessing the Nature of Chiral-Induced Spin Selectivity by Magnetic Resonance. Journal of Physical Chemistry Letters, 2021, 12, 6341-6347.	4.6	25
104	Unambiguous Determination of the g-Matrix Orientation in a Neutral Flavin Radical by Pulsed Electronâ€“Nuclear Double Resonance at 94 GHz. Journal of the American Chemical Society, 2005, 127, 10780-10781.	13.7	24
105	Comparison of the membrane-bound [NiFe] hydrogenases from <i>R. eutropha</i> H16 and <i>D. vulgaris</i> Miyazaki F in the oxidized ready state by pulsed EPR. Physical Chemistry Chemical Physics, 2010, 12, 2139.	2.8	24
106	Nanostructured lipid carriers as nitroxide depot system measured by electron paramagnetic resonance spectroscopy. International Journal of Pharmaceutics, 2011, 421, 364-369.	5.2	24
107	Investigation of cutaneous penetration properties of stearic acid loaded to dendritic core-multi-shell (CMS) nanocarriers. International Journal of Pharmaceutics, 2016, 501, 271-277.	5.2	24
108	Investigation of the cutaneous penetration behavior of dexamethasone loaded to nano-sized lipid particles by EPR spectroscopy, and confocal Raman and laser scanning microscopy. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 102-110.	4.3	24

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109	Electron paramagnetic resonance and electron nuclear double resonance spectroscopy of a heme protein maquette. <i>Chemical Physics Letters</i> , 2000, 323, 329-339.	2.6	23
110	New roles of flavoproteins in molecular cell biology: Blue-light active flavoproteins studied by electron paramagnetic resonance. <i>FEBS Journal</i> , 2009, 276, 4290-4303.	4.7	23
111	The Amyloid Precursor Protein C-Terminal Fragment C100 Occurs in Monomeric and Dimeric Stable Conformations and Binds β -Secretase Modulators. <i>Biochemistry</i> , 2011, 50, 828-835.	2.5	23
112	Determination of the g-matrix orientation in flavin radicals by high-field/high-frequency electron-nuclear double resonance. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, S96-S102.	1.9	22
113	Localization of dexamethasone within dendritic core-multishell (CMS) nanoparticles and skin penetration properties studied by multi-frequency electron paramagnetic resonance (EPR) spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 116, 94-101.	4.3	22
114	Drug distribution in nanostructured lipid particles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 110, 19-23.	4.3	21
115	Characterization of a de novo Designed Heme Protein by EPR and ENDOR Spectroscopy. <i>Chemistry - A European Journal</i> , 1999, 5, 2327-2334.	3.3	20
116	Treatment of spin-coupled metal-centres in pulsed electron double-resonance experiments. <i>Biochemical Society Transactions</i> , 2005, 33, 15-19.	3.4	20
117	Dynamic Intracomplex Heterogeneity of Phytochrome. <i>Journal of the American Chemical Society</i> , 2009, 131, 69-71.	13.7	20
118	Stabilization of Reactive Nitroxides Using Invasomes to Allow Prolonged Electron Paramagnetic Resonance Measurements. <i>Skin Pharmacology and Physiology</i> , 2011, 24, 312-321.	2.5	20
119	Pulse ENDOR studies on the radical pair P 700 + \dot{A} A 1 \dot{A} ' and the photoaccumulated quinone acceptor A 1 \dot{A} ' of photosystem I. <i>Applied Magnetic Resonance</i> , 2004, 26, 5-21.	1.2	19
120	High-field (94-GHz) EPR spectroscopy on the S2 multiline signal of photosystem II. <i>FEBS Letters</i> , 2006, 580, 3605-3609.	2.8	18
121	High-Field ^{2}H -Mims ENDOR Spectroscopy on PSII Single Crystals: Hydrogen Bonding of Y_{D} . <i>ChemPhysChem</i> , 2010, 11, 1275-1282.	2.1	18
122	EPR and 55Mn cw-ENDOR study of an antiferromagnetically coupled dinuclear manganese (MnIII MnIV) complex. <i>Chemical Physics Letters</i> , 1996, 261, 272-276.	2.6	17
123	Substrate-Binding in Quinoprotein Ethanol Dehydrogenase from <i>Pseudomonasaeruginosa</i> Studied by Electron Paramagnetic Resonance at 94 GHz. <i>Journal of the American Chemical Society</i> , 2005, 127, 7974-7975.	13.7	17
124	Nanocrystals for Improved Drug Delivery of Dexamethasone in Skin Investigated by EPR Spectroscopy. <i>Pharmaceutics</i> , 2020, 12, 400.	4.5	17
125	Biradical spin dynamics with distance-dependent exchange interaction and electron transfer efficiency. <i>Chemical Physics Letters</i> , 1990, 173, 387-392.	2.6	16
126	Hydrogen distribution in the vicinity of dangling bonds in hydrogenated amorphous silicon ($a-Si:H$). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 552-555.	1.8	16

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127	Transient electrically detected magnetic resonance spectroscopy applied to organic solar cells. Applied Physics Letters, 2015, 107, .	3.3	16
128	Characterisation of the PQQ cofactor radical in quinoprotein ethanol dehydrogenase of Pseudomonas aeruginosa by electron paramagnetic resonance spectroscopy. FEBS Letters, 2004, 564, 69-72.	2.8	15
129	Orientation of spin labels in de novo peptides. Magnetic Resonance in Chemistry, 2005, 43, S26-S33.	1.9	15
130	The functional sites of chlorophylls in D1 and D2 subunits of Photosystem II identified by pulsed EPR. Photosynthesis Research, 2005, 84, 187-192.	2.9	15
131	Towards an identification of chemically different flavin radicals by means of their g-tensor. Applied Magnetic Resonance, 2006, 30, 345-358.	1.2	15
132	Tuning Spin Dynamics in Crystalline Tetracene. Journal of Physical Chemistry Letters, 2019, 10, 1908-1913.	4.6	15
133	Substrate binding in quinoprotein ethanol dehydrogenase from Pseudomonas aeruginosa studied by electron-nuclear double resonance. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5267-5272.	7.1	14
134	Red antenna states of photosystem I from Synechococcus sp. PCC 7002. Photosynthesis Research, 2008, 95, 155-162.	2.9	14
135	A Novel Approach to Separating EPR Lines Arising from Species with Different Transition Moments. Journal of Magnetic Resonance, 2000, 147, 226-231.	2.1	12
136	Light-generated Paramagnetic Intermediates in BLUF Domains. Photochemistry and Photobiology, 2011, 87, 574-583.	2.5	12
137	A structural model for the full-length blue light-sensing protein YtvA from Bacillus subtilis, based on EPR spectroscopy. Photochemical and Photobiological Sciences, 2013, 12, 1855-1863.	2.9	12
138	Spin-spin interactions and spin delocalisation in a doped organic semiconductor probed by EPR spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 13827-13841.	2.8	11
139	Micellar radical pair decay. Journal of Chemical Physics, 1990, 93, 8260-8269.	3.0	10
140	⁵⁵ Mn-ENDOR of the S2-state multiline signal of Photosystem II from Thermosynechococcus elongatus. Biochemical Society Transactions, 2008, 36, 1001-1004.	3.4	10
141	Impact of Amino Acid Substitutions near the Catalytic Site on the Spectral Properties of an O ₂ -Tolerant Membrane-Bound [NiFe] Hydrogenase. ChemPhysChem, 2010, 11, 1215-1224.	2.1	10
142	Electron spin echo envelope modulation by electronic spin-spin interactions in radical pairs undergoing electron transfer. Chemical Physics Letters, 1998, 294, 323-331.	2.6	9
143	Insights into the nature of the hydrogen bonding of Tyr272 in apo-galactose oxidase. Journal of Inorganic Biochemistry, 2007, 101, 1859-1864.	3.5	9
144	Multi-frequency EDMR applied to microcrystalline thin-film silicon solar cells. Journal of Magnetic Resonance, 2013, 234, 1-9.	2.1	9

#	ARTICLE	IF	CITATIONS
145	95 GHz ESEEM of radical pairs: a source of radical separations and relative orientations. <i>Chemical Physics Letters</i> , 2001, 342, 162-168.	2.6	8
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