Dane R Mccamey

List of Publications by Year
in descending order

58	2,643	218381	182168
papers	citations	26 h-index	51 g-index

61	61	61	2879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Embracing the quantum limit in silicon computing. Nature, 2011, 479, 345-353.	13.7	228
2	Quintet multiexciton dynamics in singlet fission. Nature Physics, 2017, 13, 182-188.	6.5	220
3	Ceramide Mediates Vascular Dysfunction in Diet-Induced Obesity by PP2A-Mediated Dephosphorylation of the eNOS-Akt Complex. Diabetes, 2012, 61, 1848-1859.	0.3	193
4	Tuning Singlet Fission in Ï€-Bridge-Ï€ Chromophores. Journal of the American Chemical Society, 2017, 139, 12488-12494.	6.6	147
5	Beyond Shockleyâ€“Queisser: Molecular Approaches to High-Efficiency Photovoltaics. Journal of Physical Chemistry Letters, 2015, 6, 2367-2378.	2.1	142
6	Spin Rabi flopping in the photocurrent of a polymer light-emitting diode. Nature Materials, 2008, 7, 723-728.	13.3	140
7	Hyperfine-Field-Mediated Spin Beating in Electrostatically Bound Charge Carrier Pairs. Physical Review Letters, 2010, 104, 017601.	2.9	115
8	Robust absolute magnetometry with organic thin-film devices. Nature Communications, 2012, 3, 898.	5.8	94
9	Ultra-fast intramolecular singlet fission to persistent multiexcitons by molecular design. Nature Chemistry, 2019, 11, 821-828.	6.6	85
10	Electronic Spin Storage in an Electrically Readable Nuclear Spin Memory with a Lifetime >100 Seconds. Science, 2010, 330, 1652-1656.	6.0	83
11	Electrically detected magnetic resonance in ion-implanted Si:P nanostructures. Applied Physics Letters, 2006, 89, 182115.	1.5	81
12	Highly efficient photochemical upconversion in a quasi-solid organogel. Journal of Materials Chemistry C, 2015, 3, 616-622.	2.7	72
13	Morphological Evolution and Singlet Fission in Aqueous Suspensions of TIPS-Pentacene Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 157-165.	1.5	71
14	Coherent Spin Manipulation in Molecular Semiconductors: Getting a Handle on Organic Spintronics. ChemPhysChem, 2010, 11, 3040-3058.	1.0	65
15	Differentiation between polaron-pair and triplet-exciton polaron spin-dependent mechanisms in organic light-emitting diodes by coherent spin beating. Physical Review B, 2011, 84, .	1.1	63
16	Slow Hopping and Spin Dephasing of Coulombically Bound Polaron Pairs in an Organic Semiconductor at Room Temperature. Physical Review Letters, 2012, 108, 267601.	2.9	61
17	Fast Nuclear Spin Hyperpolarization of Phosphorus in Silicon. Physical Review Letters, 2009, 102, 027601.	2.9	54
18	Long-Lived Spin Coherence in Silicon with an Electrical Spin Trap Readout. Physical Review Letters, 2008, 101, 207602.	2.9	53

#	Article	IF	Citations
19	Tuning Hyperfine Fields in Conjugated Polymers for Coherent Organic Spintronics. Journal of the American Chemical Society, 2011, 133, 2019-2021. <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:mrow></mml:math>and<r	6.6	49
20	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>spin relaxation time limitations of phosphorous donor electrons near crystalline silicon to silicon dioxide interface defects. Physical Review B, 2010, 81, .	1.1	48
21	Spin-dependent dynamics of polaron pairs in organic semiconductors. Physical Review B, 2010, 82, .	1.1	44
22	Intramolecular Versus Intermolecular Triplet Fusion in Multichromophoric Photochemical Upconversion. Journal of Physical Chemistry C, 2019, 123, 20181-20187.	1.5	42
23	Modulation frequency dependence of continuous-wave optically/electrically detected magnetic resonance. Physical Review B, 2012, 86, .	1.1	38
24	Fluctuating exchange interactions enable quintet multiexciton formation in singlet fission. Journal of Chemical Physics, 2019, 151, 164104.	1.2	33
25	Passivation effects in B doped self-assembled Si nanocrystals. Applied Physics Letters, 2014, 105, 222108.	1.5	30
26	Broadband electrically detected magnetic resonance of phosphorus donors in a silicon field-effect transistor. Applied Physics Letters, 2008, 93, .	1.5	28
27	Polymer Grafting to Polydopamine Free Radicals for Universal Surface Functionalization. Journal of the American Chemical Society, 2022, 144, 6992-7000.	6.6	28
28	Spin-dependent processes at the crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Si-SiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:n at high magnetic fields. Physical Review B, 2008, 78, .	1.1	26
29	High-Field Phenomena of Qubits. Applied Magnetic Resonance, 2009, 36, 259-268.	0.6	25
30	Experimental discrimination of geminate and non-geminate recombination in a-Si:H. Physical Review B, 2009, 79, .	1.1	24
31	Singlet fission photovoltaics: Progress and promising pathways. Chemical Physics Reviews, 2022, 3, .	2.6	24
32	Phase-Encoded Hyperpolarized Nanodiamond for Magnetic Resonance Imaging. Scientific Reports, 2019, 9, 5950.	1.6	23
33	Deuteration of Perylene Enhances Photochemical Upconversion Efficiency. Journal of Physical Chemistry Letters, 2015, 6, 3061-3066.	2.1	21
34	Spectral dependence of direct and trap-mediated recombination processes in lead halide perovskites using time resolved microwave conductivity. Physical Chemistry Chemical Physics, 2016, 18, 12043-12049.	1.3	21
35	Inorganicâ€Cation Pseudohalide 2D Cs₂Pb(SCN)₂Br₂ Perovskite Single Crystal. Advanced Materials, 2022, 34, e2104782.	11.1	20
36	Pulsed electrically detected magnetic resonance in organic semiconductors. Physica Status Solidi (B): Basic Research, 2009, 246, 2750-2755.	0.7	18

#	Article	IF	Citations
37	Nuclear-Spin Quantum Memory Poised to Take the Lead. Science, 2012, 336, 1239-1240.	6.0	18
38	Ion implanted Si:P double dot with gate tunable interdot coupling. Journal of Applied Physics, 2006, 100, 106104.	1.1	16
39	Donor activation and damage in Siâ€“SiO2from low-dose, low-energy ion implantation studied via electrical transport in MOSFETs. Semiconductor Science and Technology, 2005, 20, 363-368.	1.0	13
40	Spin-dependent processes in amorphous silicon-rich silicon-nitride. Applied Physics Letters, 2010, 97, 192104.	1.5	13
41	Phosphorylation of Troponin I finely controls the positioning of Troponin for the optimal regulation of cardiac muscle contraction. Journal of Molecular and Cellular Cardiology, 2021, 150, 44-53.	0.9	12
42	Singlet fission and tandem solar cells reduce thermal degradation and enhance lifespan. Progress in Photovoltaics: Research and Applications, 2021, 29, 899-906.	4.4	12
43	Electrically detected magnetic resonance using radio-frequency reflectometry. Review of Scientific Instruments, 2009, 80, 114705.	0.6	9
44	Electrically detected spin echoes of donor nuclei in silicon. Physical Review B, 2012, 85, .	1.1	9
45	Pentaceneâ€“Bridge Interactions in an Axially Chiral Binaphthyl Pentacene Dimer. Journal of Physical Chemistry A, 2021, 125, 7226-7234.	1.1	7
46	Using coherent dynamics to quantify spin coupling within triplet-exciton/polaron complexes in organic diodes. Physical Review B, 2015, 92, .	1.1	5
47	The concerted movement of the switch region of Troponin I in cardiac muscle thin filaments as tracked by conventional and pulsed (DEER) EPR. Journal of Structural Biology, 2017, 200, 376-387.	1.3	5
48	Electrically detected crystal orientation dependent spin-Rabi beat oscillation of c-Si(111)/SiO2interface states. Physical Review B, 2011, 84, .	1.1	4
49	Singlet and Triplet Exciton Dynamics of Violanthrone. Journal of Physical Chemistry C, 2021, 125, 22464-22471.	1.5	3
50	An agnostic approach. Nature Nanotechnology, 2013, 8, 886-887.	15.6	2
51	Recombination Dynamics in Thin-film Photovoltaic Materials via Time-resolved Microwave Conductivity. Journal of Visualized Experiments, 2017, , .	0.2	2
52	Single-electron transistor coupled to a silicon nano-MOSFET. , 2005, , .		1
53	Measuring spin relaxation with standard pulse sequences in the singletâ€“triplet basis. Journal of Magnetic Resonance, 2015, 257, 70-78.	1.2	1
54	Measuring the Charge and Spin States ofÂElectrons on Individual Dopant Atoms inÂSilicon. Topics in Applied Physics, 2009, , 169-182.	0.4	1

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55	Resolving the Spatial Variation and Correlation of Hyperfine Spin Properties in Organic Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2104186.	11.1	1
56	Electrically detected Rabi oscillations of phosphorus qubits in silicon. Physica Status Solidi (B): Basic Research, 2011, 248, 2697-2699.	0.7	0
57	Investigating Spin-Dependent Processes in Organic Semiconductors. , 2010, , 257-299.		0
58	Inorganicâ€Cation Pseudohalide 2D Cs₂Pb(SCN)₂Br₂ Perovskite Single Crystal (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	11.1	0