

Aaron M Lee

List of Publications by Year in descending order

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41
papers

5,631
citations

257101

24
h-index

288905

40
g-index

41
all docs

41
docs citations

41
times ranked

7134
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in methods and algorithms in a modern quantum chemistry program package. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3172-3191.	1.3	2,597
2	Q-Chem 2.0: a high-performance ab initio electronic structure program package. <i>Journal of Computational Chemistry</i> , 2000, 21, 1532-1548.	1.5	617
3	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 65.	1.6	468
4	Reference ranges for cardiac structure and function using cardiovascular magnetic resonance (CMR) in Caucasians from the UK Biobank population cohort. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017, 19, 18.	1.6	391
5	The density functional calculation of nuclear shielding constants using London atomic orbitals. <i>Journal of Chemical Physics</i> , 1995, 103, 10095-10109.	1.2	187
6	The adiabatic approximation. <i>Chemical Physics Letters</i> , 1996, 252, 425-430.	1.2	171
7	An observational study to assess if automated diabetic retinopathy image assessment software can replace one or more steps of manual imaging grading and to determine their cost-effectiveness. <i>Health Technology Assessment</i> , 2016, 20, 1-72.	1.3	88
8	Determination of frequency-dependent polarizabilities using current density-functional theory. <i>Physical Review A</i> , 1996, 53, 1316-1322.	1.0	83
9	The determination of hyperpolarizabilities using density functional theory with nonlocal functionals. <i>Journal of Chemical Physics</i> , 1994, 101, 9704-9709.	1.2	79
10	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 18.	1.6	78
11	Synthetic, Structural and Vibrational Spectroscopic Studies in Bismuth(III) Halide/ N,N -Aromatic Bidentate Base Systems. I Large-Cation (2,2'-Bipyridinium and 1,10-Phenanthroline) Salts of Polyhalobismuthate(III) Ions. <i>Australian Journal of Chemistry</i> , 1998, 51, 293.	0.5	76
12	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 105.	1.1	74
13	Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes. <i>Circulation</i> , 2018, 138, 2175-2186.	1.6	70
14	The impact of cardiovascular risk factors on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. <i>PLoS ONE</i> , 2017, 12, e0185114.	1.1	52
15	Right ventricular shape and function: cardiovascular magnetic resonance reference morphology and biventricular risk factor morphometrics in UK Biobank. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 41.	1.6	47
16	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009476.	1.3	43
17	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. <i>Scientific Reports</i> , 2019, 9, 1130.	1.6	43
18	The calculation of magnetisabilities using current density functional theory. <i>Chemical Physics Letters</i> , 1994, 229, 225-232.	1.2	42

#	ARTICLE	IF	CITATIONS
19	Quantitative CMR population imaging on 20,000 subjects of the UK Biobank imaging study: LV/RV quantification pipeline and its evaluation. <i>Medical Image Analysis</i> , 2019, 56, 26-42.	7.0	41
20	Prospective association between handgrip strength and cardiac structure and function in UK adults. <i>PLoS ONE</i> , 2018, 13, e0193124.	1.1	37
21	Synthetic, Structural and Vibrational Spectroscopic Studies in Bismuth(III) Halide/N,N ² -Aromatic Bidentate Base Systems. IV Bismuth(III) Halide/N,N ² -Bidentate Ligand (1 : 1) Systems. <i>Australian Journal of Chemistry</i> , 1998, 51, 325.	0.5	33
22	Synthetic, Structural and Vibrational Spectroscopic Studies in Bismuth(III) Halide/N,N ² -Aromatic Bidentate Base Systems. V Bismuth(III) Halide/N,N ² -Bidentate Ligand (1 : 2) Systems. <i>Australian Journal of Chemistry</i> , 1998, 51, 331.	0.5	33
23	Dissociation of hydrogen and nitrogen molecules studied using density functional theory. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3999.	1.7	28
24	Computation of Coulomb and exchange radial intracule densities. <i>Chemical Physics Letters</i> , 1999, 313, 271-278.	1.2	28
25	Optimal partition of the Coulomb operator. <i>Physical Review A</i> , 1997, 55, 3233-3235.	1.0	23
26	Real-Time Prediction of Segmentation Quality. <i>Lecture Notes in Computer Science</i> , 2018, , 578-585.	1.0	23
27	Synthetic, Structural and Vibrational Spectroscopic Studies in Bismuth(III) Halide/N,N ² -Aromatic Bidentate Base Systems. III Some Novel Bismuth(III) Halide/N,N ² -Bidentate Ligand (1 : 1). <i>Australian Journal of Chemistry</i> , 1998, 51, 317.	0.5	23
28	Evaluation of splenic switch off in a tertiary imaging centre: validation and assessment of utility. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 1216-1221.	0.5	21
29	Cardiovascular magnetic resonance reference values of mitral and tricuspid annular dimensions: the UK Biobank cohort. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 5.	1.6	21
30	Exchange vector potentials in current-density functional theory. <i>Physical Review A</i> , 1999, 59, 209-222.	1.0	20
31	Computation and analysis of molecular Hartree-Fock momentum intracules. <i>Molecular Physics</i> , 2002, 100, 1763-1770.	0.8	20
32	The impact of menopausal hormone therapy (MHT) on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. <i>PLoS ONE</i> , 2018, 13, e0194015.	1.1	19
33	Pulmonary blood volume index as a quantitative biomarker of haemodynamic congestion in hypertrophic cardiomyopathy. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 1368-1376.	0.5	14
34	Synthetic, Structural and Vibrational Spectroscopic Studies in Bismuth(III) Halide/N,N ² -Aromatic Bidentate Base Systems. II Bipyridinium (2,2' Bipyridine) tetraholobismuthate (III) (Halogen = Chloride or Tj ETQq0.0 rgBT /Overlock 1	0.5	10
35	Coulomb energies via Stewart densities. <i>Chemical Physics Letters</i> , 1998, 286, 226-232.	1.2	10
36	Variation in lung function and alterations in cardiac structure and function - Analysis of the UK Biobank cardiovascular magnetic resonance imaging substudy. <i>PLoS ONE</i> , 2018, 13, e0194434.	1.1	6

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37	Sex-specific associations between alcohol consumption, cardiac morphology, and function as assessed by magnetic resonance imaging: insights from the UK Biobank Population Study. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 1009-1016.	0.5	4
38	Structural Consequences of S \hat{a} t' Se Substitution in some Symmetrical [M(S ₂ CNR ₂) ₃] Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 2419-2423.	0.6	3
39	Subclinical Changes in Cardiac Functional Parameters as Determined by Cardiovascular Magnetic Resonance (CMR) Imaging in Sleep Apnea and Snoring: Findings from UK Biobank. <i>Medicina (Lithuania)</i> , 2021, 57, 555.	0.8	3
40	Investigations of the CASE approximation using the optimal partition of the Coulomb operator. <i>Chemical Physics Letters</i> , 1998, 292, 172-176.	1.2	2
41	Q-Chem 2.0: a high-performance ab initio electronic structure program package. , 2000, 21, 1532.		2