

Alister J Page

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.

110 papers	3,189 citations	29 h-index	53 g-index
116 ext. papers	3,840 ext. citations	6.5 avg, IF	5.48 L-index

#	Paper	IF	Citations
110	First-Principles Thermochemical Properties of Hexagonal and Cubic Phase BaMnO ₃ . <i>Materials Today Communications</i> , 2022 , 103453	2.5	0
109	Understanding specific ion effects and the Hofmeister series.. <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	13
108	Ion Specificity in the Measured Concentration Depth Profile of Ions at the Vapor-Glycerol Interface. <i>Journal of Colloid and Interface Science</i> , 2022 ,	9.3	1
107	The electrostatic origins of specific ion effects: quantifying the Hofmeister series for anions.. <i>Chemical Science</i> , 2021 , 12, 15007-15015	9.4	9
106	Reaction pathways in the solid state and the Hubbard U correction. <i>Journal of Chemical Physics</i> , 2021 , 154, 124121	3.9	2
105	Cytotoxicity of Tin(IV)-based compounds: A review. <i>Polyhedron</i> , 2021 , 198, 115069	2.7	2
104	Group and Period-Based Representations for Improved Machine Learning Prediction of Heterogeneous Alloy Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5156-5162	6.4	4
103	Low-Cost Pt Alloys for Heterogeneous Catalysis Predicted by Density Functional Theory and Active Learning. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7305-7311	6.4	1
102	Thermochemical stabilities of giant fullerenes using density functional tight binding theory and isodesmic-type reactions. <i>Journal of Computational Chemistry</i> , 2021 , 42, 222-230	3.5	4
101	Anion ordering and vacancy defects in niobium perovskite oxynitrides. <i>Materials Advances</i> , 2021 , 2, 2398-2407	3.5	3
100	Initial competing chemical pathways during floating catalyst chemical vapor deposition carbon nanotube growth. <i>Journal of Applied Physics</i> , 2021 , 129, 044302	2.5	7
99	Energy and Charge Transfer at the Boron Nitride Nanotube Catalyst Growth Interface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11662-11668	3.8	1
98	Scalable growth of single-walled carbon nanotubes with a highly uniform structure. <i>Nanoscale</i> , 2020 , 12, 12263-12267	7.7	8
97	DFTB+, a software package for efficient approximate density functional theory based atomistic simulations. <i>Journal of Chemical Physics</i> , 2020 , 152, 124101	3.9	210
96	Selective cytotoxicity of organotin(IV) compounds with 2,3-dihydroxybenzylidithiocarbamate Schiff bases. <i>Research on Chemical Intermediates</i> , 2020 , 46, 2351-2379	2.8	2
95	The Hubbard-U correction and optical properties of d metal oxide photocatalysts. <i>Journal of Chemical Physics</i> , 2020 , 153, 224116	3.9	5
94	Homoleptic tin(IV) compounds containing tridentate ONS dithiocarbamate Schiff bases: Synthesis, X-ray crystallography, DFT and cytotoxicity studies. <i>Journal of Molecular Structure</i> , 2020 , 1205, 127635	3.4	7

93	Hybrid Low-Dimensional Carbon Allotropes Formed in Gas Phase. <i>Advanced Functional Materials</i> , 2020 , 30, 2005016	15.6	5
92	Electronic Structure and High-Temperature Thermochemistry of Oxygen-Deficient BaMO ₃ (M = Ti □ Cu) Perovskites. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27055-27063	3.8	2
91	Tin(IV) compounds of tridentate thiosemicarbazone Schiff bases: Synthesis, characterization, in-silico analysis and in vitro cytotoxicity. <i>Polyhedron</i> , 2020 , 189, 114729	2.7	7
90	Experimental, computational and thermodynamic studies in perovskites metal oxides for thermochemical fuel production: A review. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 12653-12679	6.7	17
89	Defect Engineering for Photocatalysis: From Ternary to Perovskite Oxynitrides. <i>ChemNanoMat</i> , 2020 , 6, 708-719	3.5	9
88	Improved Representations of Heterogeneous Carbon Reforming Catalysis Using Machine Learning. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 6882-6894	6.4	10
87	Electronic structure and high-temperature thermochemistry of BaZrO perovskite from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 12468-12476	3.6	3
86	Lewis Strength Determines Specific-Ion Effects in Aqueous and Nonaqueous Solvents. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6420-6429	2.8	7
85	Catalyst- and Etchant-Dependent Mechanisms of Single-Walled Carbon Nanotube Nucleation during Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10622-10629	3.8	2
84	Vacancy diffusion barriers in TaON and Ta ₃ N ₅ water-splitting photocatalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13029-13035	13	15
83	New Phosphorene by Phase Combination with Tunable Electronic and Mechanical Properties. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10788-10794	3.8	9
82	Polymer solvation in choline chloride deep eutectic solvents modulated by the hydrogen bond donor. <i>Journal of Molecular Liquids</i> , 2019 , 279, 584-593	6	12
81	Boron Nitride Nanotube Nucleation via Network Fusion during Catalytic Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13385-13393	16.4	12
80	Boron Nitride Nanotube Nucleation during Ni-Catalyzed Boron Oxide Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27875-27883	3.8	5
79	How does acetonitrile modulate single-walled carbon nanotube diameter during CVD growth?. <i>Carbon</i> , 2019 , 146, 535-541	10.4	7
78	-Vanillin Derived Schiff Bases and Their Organotin(IV) Compounds: Synthesis, Structural Characterisation, In-Silico Studies and Cytotoxicity. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	18
77	Effect of halides on the solvation of poly(ethylene oxide) in the ionic liquid propylammonium nitrate. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 649-654	9.3	5
76	Chiral-selective etching effects on carbon nanotube growth at edge carbon atoms. <i>Journal of Computational Chemistry</i> , 2019 , 40, 375-380	3.5	4

75	Performance of DFT for C Isomerization Energies: A Noticeable Exception to Jacob's Ladder. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 257-266	2.8	13
74	Accurate Thermochemical and Kinetic Stabilities of C Isomers. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4768-4777	2.8	7
73	Nanostructure of propylammonium nitrate in the presence of poly(ethylene oxide) and halide salts. <i>Journal of Chemical Physics</i> , 2018 , 148, 193826	3.9	5
72	NO Solvation Structure in Choline Chloride Deep Eutectic Solvents-The Role of the Hydrogen Bond Donor. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4336-4344	3.4	22
71	Inducing regioselective chemical reactivity in graphene with alkali metal intercalation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19987-19994	3.6	3
70	Synthesis, characterisation and structure determination of 3-[(1Z)-{2-[bis{[(2-methylphenyl)methyl]sulfanyl})methylidene]hydrazin-1-ylidene)methyl]benzene-1,2-diol. <i>Journal of Molecular Structure</i> , 2018 , 1171, 650-657	2.3	2
69	The influence of hydrogen on transition metal - Catalysed graphene nucleation. <i>Carbon</i> , 2018 , 128, 215-224	2.34	8
68	Density functional tight binding-based free energy simulations in the DFTB+ program. <i>Journal of Computational Chemistry</i> , 2018 , 39, 2452-2458	3.5	13
67	Boron Nitride Nucleation Mechanism during Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24341-24349	3.8	13
66	Oxygen Vacancy Defect Migration in Titanate Perovskite Surfaces: Effect of the A-Site Cations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14590-14597	3.8	14
65	Effect of ammonia on chemical vapour deposition and carbon nanotube nucleation mechanisms. <i>Nanoscale</i> , 2017 , 9, 1727-1737	7.7	7
64	Nanostructure, hydrogen bonding and rheology in choline chloride deep eutectic solvents as a function of the hydrogen bond donor. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3297-3306	3.6	187
63	Catalytic CVD synthesis of boron nitride and carbon nanomaterials - synergies between experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 26466-26494	3.6	22
62	Chiral-Selective Carbon Nanotube Etching with Ammonia: A Quantum Chemical Investigation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19862-19870	3.8	7
61	Spanning the Parameter Space of Chemical Vapor Deposition Graphene Growth with Quantum Chemical Simulations. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13851-13864	3.8	12
60	Formation of persistent organic pollutants from 2,4,5-trichlorothiophenol combustion: a density functional theory investigation. <i>Journal of Molecular Modeling</i> , 2016 , 22, 128	2	6
59	General H ₂ Activation Modes for Lewis Acid-Transition Metal Bifunctional Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 1655-1662	13.1	64
58	Nanostructure of Deep Eutectic Solvents at Graphite Electrode Interfaces as a Function of Potential. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2225-2233	3.8	43

57	A global reaction route mapping-based kinetic Monte Carlo algorithm. <i>Journal of Chemical Physics</i> , 2016 , 145, 024105	3.9	11
56	The influence of magnetic moment on carbon nanotube nucleation. <i>Carbon</i> , 2016 , 105, 136-143	10.4	7
55	Theoretical analysis of structural diversity of covalent organic framework: Stacking isomer structures thermodynamics and kinetics. <i>Chemical Physics Letters</i> , 2016 , 664, 101-107	2.5	10
54	Quantum Chemical Simulation of Carbon Nanotube Nucleation on Al ₂ O ₃ Catalysts via CH ₄ Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9281-8	16.4	24
53	Formation of chlorobenzenes by oxidative thermal decomposition of 1,3-dichloropropene. <i>Combustion and Flame</i> , 2015 , 162, 2414-2421	5.3	11
52	Insights into carbon nanotube and graphene formation mechanisms from molecular simulations: a review. <i>Reports on Progress in Physics</i> , 2015 , 78, 036501	14.4	80
51	The ONIOM Method and Its Applications. <i>Chemical Reviews</i> , 2015 , 115, 5678-796	68.1	671
50	Quantum Chemical Molecular Dynamics Simulations of 1,3-Dichloropropene Combustion. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9307-16	2.8	10
49	Structure and absorption in C ₆₀ /zinc tetra-phenylporphyrin composite materials: A computational study. <i>Chemical Physics Letters</i> , 2015 , 620, 1-6	2.5	
48	Nearly exclusive growth of small diameter semiconducting single-wall carbon nanotubes from organic chemistry synthetic end-cap molecules. <i>Nano Letters</i> , 2015 , 15, 586-95	11.5	69
47	Nanostructure of [Li(G4)] TFSI and [Li(G4)] NO ₃ solvate ionic liquids at HOPG and Au(111) electrode interfaces as a function of potential. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 325-33	3.6	53
46	Crystalline Ni ₃ C as both carbon source and catalyst for graphene nucleation: a QM/MD study. <i>Scientific Reports</i> , 2015 , 5, 12091	4.9	30
45	Formation of benzofuran and chlorobenzofuran from 1,3-dichloropropene: A quantum chemical investigation. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 1739-1745	2.1	2
44	Combined friction force microscopy and quantum chemical investigation of the tribotronic response at the propylammonium nitrate-graphite interface. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16047-52	3.6	19
43	Graphene Nucleation from Amorphous Nickel Carbides: QM/MD Studies on the Role of Subsurface Carbon Density. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11078-11084	3.8	24
42	Step-edge self-assembly during graphene nucleation on a nickel surface: QM/MD simulations. <i>Nanoscale</i> , 2014 , 6, 140-4	7.7	22
41	3-Dimensional atomic scale structure of the ionic liquid-graphite interface elucidated by AM-AFM and quantum chemical simulations. <i>Nanoscale</i> , 2014 , 6, 8100-6	7.7	65
40	Assessment of the Density Functional Tight Binding Method for Protic Ionic Liquids. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 4633-4643	6.4	36

39	Graphene nucleation on a surface-molten copper catalyst: quantum chemical molecular dynamics simulations. <i>Chemical Science</i> , 2014 , 5, 3493-3500	9.4	36
38	Combined STM, AFM, and DFT Study of the Highly Ordered Pyrolytic Graphite/1-Octyl-3-methyl-imidazolium Bis(trifluoromethylsulfonyl)imide Interface. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10833-10843	3.8	59
37	Stochastic structure determination for conformationally flexible heterogenous molecular clusters: application to ionic liquids. <i>Journal of Computational Chemistry</i> , 2013 , 34, 2591-600	3.5	33
36	Temperature Dependence of Catalyst-Free Chirality-Controlled Single-Walled Carbon Nanotube Growth from Organic Templates. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3176-3180	6.4	10
35	Revealing the Dual Role of Hydrogen for Growth Inhibition and Defect Healing in Polycyclic Aromatic Hydrocarbon Formation: QM/MD Simulations. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2323-2327	6.4	15
34	Carbon Coating Precedes SWCNT Nucleation on Silicon Nanoparticles: Insights from QM/MD Simulations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4238-4244	3.8	11
33	Quantum chemical investigation of epoxide and ether groups in graphene oxide and their vibrational spectra. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3725-35	3.6	39
32	Nucleation of Graphene Precursors on Transition Metal Surfaces: Insights from Theoretical Simulations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14858-14864	3.8	38
31	Sub-surface nucleation of graphene precursors near a Ni(111) step-edge. <i>Chemical Communications</i> , 2012 , 48, 7937-9	5.8	37
30	Optimization of a Genetic Algorithm for the Functionalization of Fullerenes. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 1841-51	6.4	13
29	Single-walled carbon nanotube growth from chiral carbon nanorings: prediction of chirality and diameter influence on growth rates. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15887-96	16.4	48
28	Effects of Molecular Dynamics Thermostats on Descriptions of Chemical Nonequilibrium. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4019-28	6.4	11
27	Theoretical insights into chirality-controlled SWCNT growth from a cycloparaphenylene template. <i>ChemPhysChem</i> , 2012 , 13, 1479-85	3.2	26
26	Dynamics of local chirality during SWCNT growth: armchair versus zigzag nanotubes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9311-9	16.4	36
25	Atomistic Mechanism of Carbon Nanostructure Self-Assembly as Predicted by Nonequilibrium QM/MD Simulations 2012 , 103-172		4
24	Self-Consistent-Charge Density-Functional Tight-Binding/MD Simulation of Transition Metal Catalyst Particle Melting and Carbide Formation. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011 , 8, 1755-1763	0.3	10
23	Thermal annealing of SiC nanoparticles induces SWNT nucleation: evidence for a catalyst-independent VSS mechanism. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15673-80	3.6	10
22	SWNT nucleation from carbon-coated SiO ₂ nanoparticles via a vapor-solid-solid mechanism. <i>Journal of the American Chemical Society</i> , 2011 , 133, 621-8	16.4	61

21	Template effect in the competition between Haeckelite and graphene growth on Ni(111): quantum chemical molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18837-42	16.4	82
20	Do SiO ₂ and carbon-doped SiO ₂ nanoparticles melt? Insights from QM/MD simulations and ramifications regarding carbon nanotube growth. <i>Chemical Physics Letters</i> , 2011 , 508, 235-241	2.5	7
19	Polyynes Chain Growth and Ring Collapse Drives Ni-Catalyzed SWNT Growth: A QM/MD Investigation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8206-8211	3.8	42
18	QM/MD simulation of SWNT nucleation on transition-metal carbide nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15699-707	16.4	86
17	Mechanisms of single-walled carbon nanotube nucleation, growth, and healing determined using QM/MD methods. <i>Accounts of Chemical Research</i> , 2010 , 43, 1375-85	24.3	103
16	Trends in MH ₂ (n ⁺) ion-quadrupole complexes (M = Li, Be, Na, Mg, K, Ca; n = 1, 2) using ab initio methods. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13788-97	3.6	9
15	Comparison of single-walled carbon nanotube growth from Fe and Ni nanoparticles using quantum chemical molecular dynamics methods. <i>Carbon</i> , 2010 , 48, 3014-3026	10.4	40
14	Milestones in molecular dynamics simulations of single-walled carbon nanotube formation: A brief critical review. <i>Nano Research</i> , 2009 , 2, 755-767	10	45
13	Ab Initio rovibrational spectrum of the NaH ₂ ⁺ ion-quadrupole complex. <i>Theoretical Chemistry Accounts</i> , 2009 , 122, 87-100	1.9	10
12	Ab initio vibrational spectrum of (He)MgH ₂ ⁺ . <i>Chemical Physics Letters</i> , 2009 , 468, 299-306	2.5	1
11	Molecular dynamics simulation of the low-temperature partial oxidation of CH ₄ . <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1539-47	2.8	40
10	Defect Healing during Single-Walled Carbon Nanotube Growth: A Density-Functional Tight-Binding Molecular Dynamics Investigation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20198-20207	3.8	57
9	Quantum chemical molecular dynamics simulation of single-walled carbon nanotube cap nucleation on an iron particle. <i>ACS Nano</i> , 2009 , 3, 3413-20	16.7	85
8	Ab initio study of ground state MH ₂ , HMHe ⁺ and MHe ₂ (2 ⁺), M = Mg, Ca. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1285-91	3.6	10
7	Trends in low-lying electronic states of XH ₂ (X=Li, Na, K). <i>Computational and Theoretical Chemistry</i> , 2008 , 853, 53-57		3
6	Structural and energetic trends in Group-I and II hydrohelide cations. <i>Chemical Physics Letters</i> , 2008 , 465, 10-14	2.5	2
5	Ab initio electronic and rovibrational structure of MgH ₂ ²⁺ . <i>Chemical Physics</i> , 2008 , 351, 37-45	2.3	4
4	Rovibrational spectra of LiH ₂ ⁺ , LiHD ⁺ and LiD ₂ ⁺ determined from FCI property surfaces. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 4478-88	2.8	21

3	Ab initio calculations of the electronic structure of the ground states of HBeHe ⁺ and BeHe ₂ ²⁺ . <i>Chemical Physics Letters</i> , 2007 , 442, 194-200	2.5	6
2	Ab initio rovibrational spectra of , BeHD ₂ ⁺ and. <i>Molecular Physics</i> , 2007 , 105, 2527-2539	1.7	4
1	Ab initio properties and potential energy surface of the ground electronic state of . <i>Chemical Physics Letters</i> , 2006 , 429, 335-340	2.5	8