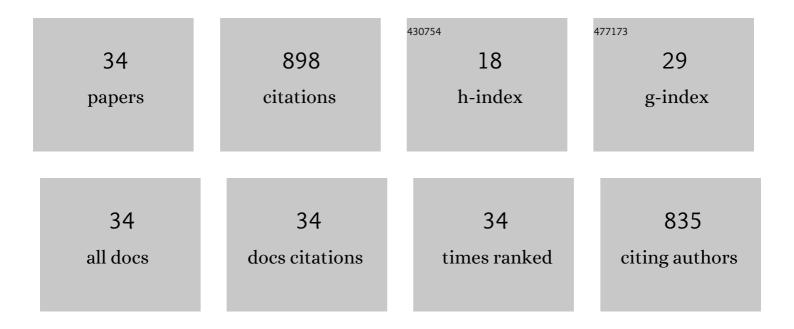
Jacob W Martin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Soot inception: Carbonaceous nanoparticle formation in flames. Progress in Energy and Combustion Science, 2022, 88, 100956.	15.8	117
2	Internal structure of soot particles in a diffusion flame. Carbon, 2019, 141, 635-642.	5.4	94
3	The enhancement of chain rigidity and gas transport performance of polymers of intrinsic microporosity via intramolecular locking of the spiro-carbon. Chemical Communications, 2016, 52, 6553-6556.	2.2	53
4	The Polarization of Polycyclic Aromatic Hydrocarbons Curved by Pentagon Incorporation: The Role of the Flexoelectric Dipole. Journal of Physical Chemistry C, 2017, 121, 27154-27163.	1.5	48
5	Reactivity of Polycyclic Aromatic Hydrocarbon Soot Precursors: Implications of Localized ï€-Radicals on Rim-Based Pentagonal Rings. Journal of Physical Chemistry C, 2019, 123, 26673-26682.	1.5	47
6	Optical band gap of cross-linked, curved, and radical polyaromatic hydrocarbons. Physical Chemistry Chemical Physics, 2019, 21, 16240-16251.	1.3	45
7	Ï€-Diradical Aromatic Soot Precursors in Flames. Journal of the American Chemical Society, 2021, 143, 12212-12219.	6.6	41
8	Giant fullerene formation through thermal treatment of fullerene soot. Carbon, 2017, 125, 132-138.	5.4	37
9	Polar curved polycyclic aromatic hydrocarbons in soot formation. Proceedings of the Combustion Institute, 2019, 37, 1117-1123.	2.4	37
10	Topology of Disordered 3D Graphene Networks. Physical Review Letters, 2019, 123, 116105.	2.9	37
11	An Ontology and Semantic Web Service for Quantum Chemistry Calculations. Journal of Chemical Information and Modeling, 2019, 59, 3154-3165.	2.5	33
12	Reactivity of Polycyclic Aromatic Hydrocarbon Soot Precursors: Kinetics and Equilibria. Journal of Physical Chemistry A, 2020, 124, 10040-10052.	1.1	25
13	The impact of cyclic fuels on the formation and structure of soot. Combustion and Flame, 2020, 219, 1-12.	2.8	25
14	Flexoelectricity and the Formation of Carbon Nanoparticles in Flames. Journal of Physical Chemistry C, 2018, 122, 22210-22215.	1.5	23
15	Exploring the internal structure of soot particles using nanoindentation: A reactive molecular dynamics study. Combustion and Flame, 2020, 219, 45-56.	2.8	22
16	Ion-Induced Soot Nucleation Using a New Potential for Curved Aromatics. Combustion Science and Technology, 2019, 191, 747-765.	1.2	21
17	Nanostructure of Gasification Charcoal (Biochar). Environmental Science & Technology, 2019, 53, 3538-3546.	4.6	20
18	Gold-sputtered Blu-ray discs: simple and inexpensive SERS substrates for sensitive detection of melamine. Analytical and Bioanalytical Chemistry, 2016, 408, 4403-4411.	1.9	18

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#	Article	IF	CITATIONS
19	Partitioning of polycyclic aromatic hydrocarbons in heterogeneous clusters. Carbon, 2019, 143, 247-256.	5.4	17
20	Can nascent soot particles burn from the inside?. Carbon, 2016, 109, 608-615.	5.4	16
21	Mechanical Properties of Soot Particles: The Impact of Crosslinked Polycyclic Aromatic Hydrocarbons. Combustion Science and Technology, 2021, 193, 643-663.	1.2	14
22	The role of oxygenated species in the growth of graphene, fullerenes and carbonaceous particles. Carbon, 2021, 182, 203-213.	5.4	14
23	Reactive localized ï€-radicals on rim-based pentagonal rings: Properties and concentration in flames. Proceedings of the Combustion Institute, 2021, 38, 565-573.	2.4	13
24	Atomic structure and electronic structure of disordered graphitic carbon nitride. Carbon, 2019, 147, 483-489.	5.4	12
25	Aromatic penta-linked hydrocarbons in soot nanoparticle formation. Proceedings of the Combustion Institute, 2021, 38, 1525-1532.	2.4	12
26	Raman on a disc: high-quality Raman spectroscopy in an open channel on a centrifugal microfluidic disc. Analyst, The, 2017, 142, 1682-1688.	1.7	11
27	Dynamic polarity of curved aromatic soot precursors. Combustion and Flame, 2019, 206, 150-157.	2.8	10
28	On the reactive coagulation of incipient soot nanoparticles. Journal of Aerosol Science, 2022, 159, 105866.	1.8	10
29	A big data framework to validate thermodynamic data for chemical species. Combustion and Flame, 2017, 176, 584-591.	2.8	8
30	An assessment of the viability of alternatives to biodiesel transport fuels. Applied Energy, 2019, 251, 113363.	5.1	6
31	Gold sputtered Blu-Ray disks as novel and cost effective sensors for surface enhanced Raman spectroscopy. , 2015, , .		4
32	Sphere Encapsulated Monte Carlo: Obtaining Minimum Energy Configurations of Large Aromatic Systems. Journal of Physical Chemistry A, 2019, 123, 7303-7313.	1.1	4
33	Self-assembly of curved aromatic molecules in nanoparticles. Carbon, 2021, 182, 70-88.	5.4	4
34	PyTrA: ultra-fast transient absorption data analysis software. International Journal of Nanotechnology, 2014, 11, 601.	0.1	0