

John D Thrower

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

630
citations

516710

16
h-index

580821

25
g-index

32
all docs

32
docs citations

32
times ranked

612
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective hydrogenation of graphene on Ir(111): an X-ray standing wave study. Faraday Discussions, 2022, , .	3.2	0
2	Ly α Irradiation of Superhydrogenated Coronene Films: Implications for H ₂ Formation. Astrophysical Journal Letters, 2021, 908, L18.	8.3	4
3	Superhydrogenation of pentacene: the reactivity of zigzag-edges. Physical Chemistry Chemical Physics, 2020, 22, 1557-1565.	2.8	20
4	Growth and electronic properties of bi- and trilayer graphene on Ir(111). Nanoscale, 2020, 12, 19776-19786.	5.6	5
5	Surface Science Investigations of Icy Mantle Growth on Interstellar Dust Grains in Cooling Environments. ACS Earth and Space Chemistry, 2019, 3, 1915-1931.	2.7	10
6	Identification of stable configurations in the superhydrogenation sequence of polycyclic aromatic hydrocarbon molecules. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5492-5498.	4.4	25
7	Deuteration of C60 on a highly oriented pyrolytic graphite surface. Proceedings of the International Astronomical Union, 2019, 15, 458-459.	0.0	1
8	Laboratory evidence for the formation of hydrogenated fullerene molecules. Proceedings of the International Astronomical Union, 2019, 15, 144-147.	0.0	3
9	H ₂ catalysis through superhydrogenation of interstellar polycyclic aromatic hydrocarbons. Proceedings of the International Astronomical Union, 2019, 15, 264-266.	0.0	1
10	XUV photodesorption of carbon cluster ions and ionic photofragments from a mixed methaneâ€“water ice. Physical Chemistry Chemical Physics, 2018, 20, 7457-7469.	2.8	3
11	Electron-Promoted Desorption from Water Ice Surfaces: Neutral Gas-Phase Products. ACS Earth and Space Chemistry, 2017, 1, 209-215.	2.7	12
12	Thermal desorption of astrophysically relevant molecules from forsterite(010). Monthly Notices of the Royal Astronomical Society, 2017, 472, 389-399.	4.4	22
13	The influence of coronene super-hydrogenation on the coronene-graphite interaction. Journal of Chemical Physics, 2016, 145, 174708.	3.0	11
14	Efficient electron-promoted desorption of benzene from water ice surfaces. Physical Chemistry Chemical Physics, 2016, 18, 4026-4034.	2.8	18
15	Thermal desorption of ammonia from crystalline forsterite surfaces. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3317-3327.	4.4	22
16	Hydrogenation of PAH molecules through interaction with hydrogenated carbonaceous grains. Physical Chemistry Chemical Physics, 2014, 16, 3381-3387.	2.8	17
17	Polycyclic aromatic hydrocarbons â€“ catalysts for molecular hydrogen formation. Faraday Discussions, 2014, 168, 223-234.	3.2	25
18	Highlights from Faraday Discussion 168: Astrochemistry of Dust, Ice and Gas, Leiden, The Netherlands, April 2014. Chemical Communications, 2014, 50, 13636-13644.	4.1	0

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19	Interaction between Coronene and Graphite from Temperature-Programmed Desorption and DFT-vdW Calculations: Importance of Entropic Effects and Insights into Graphite Interlayer Binding. Journal of Physical Chemistry C, 2013, 117, 13520-13529.	3.1	45
20	Laboratory studies of electron and ion irradiation of solid acetonitrile (CH ₃ CN). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110586.	3.4	37
21	EXPERIMENTAL EVIDENCE FOR THE FORMATION OF HIGHLY SUPERHYDROGENATED POLYCYCLIC AROMATIC HYDROCARBONS THROUGH H ATOM ADDITION AND THEIR CATALYTIC ROLE IN H ₂ FORMATION. Astrophysical Journal, 2012, 752, 3.	4.5	75
22	THE CATALYTIC ROLE OF CORONENE FOR MOLECULAR HYDROGEN FORMATION. Astrophysical Journal Letters, 2012, 745, L2.	8.3	72
23	UV/Vis spectroscopy of C60 embedded in water ice. Chemical Physics Letters, 2012, 550, 79-82.	2.6	7
24	Superhydrogenated PAHs: Catalytic formation of H ₂ . EAS Publications Series, 2011, 46, 453-460.	0.3	7
25	Highly efficient electron-stimulated desorption of benzene from amorphous solid water ice. Chemical Physics Letters, 2011, 505, 106-111.	2.6	18
26	Photon- and electron-stimulated desorption from laboratory models of interstellar ice grains. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 799-806.	2.1	17
27	Thermal desorption of C6H6 from surfaces of astrophysical relevance. Journal of Chemical Physics, 2009, 131, 244711.	3.0	34
28	Laboratory investigations of the interaction between benzene and bare silicate grain surfaces. Monthly Notices of the Royal Astronomical Society, 2009, 394, 1510-1518.	4.4	45
29	Surface science investigations of photoprocesses in model interstellar ices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 919-924.	2.1	18
30	Desorption of Hot Molecules from Photon Irradiated Interstellar Ices. Astrophysical Journal, 2008, 673, 1233-1239.	4.5	30
31	Meteorite nanoparticles as models for interstellar grains: Synthesis and preliminary characterisation. Faraday Discussions, 2006, 133, 103.	3.2	20
32	An experimental and theoretical study of the photoelectron spectrum of hydrogen selenide. Chemical Physics, 2005, 315, 121-132.	1.9	6