Jennifer A Noble

List of Publications by Year
in descending order

53	1,115	430874 18	414414 32
papers	citations	h-index	g-index

56	56	56	1232
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How micron-sized dust particles determine the chemistry of our Universe. Scientific Reports, 2013, 3, 1338.	3.3	132
2	CO₂FORMATION IN QUIESCENT CLOUDS: AN EXPERIMENTAL STUDY OF THE CO + OH PATHWAY. Astrophysical Journal, 2011, 735, 121.	4.5	77
3	The desorption of H₂CO from interstellar grains analogues. Astronomy and Astrophysics, 2012, 543, A5.	5.1	72
4	Diffusion measurements of CO, HNCO, H₂CO, and NH₃in amorphous water ice. Astronomy and Astrophysics, 2013, 555, A13.	5.1	68
5	Thermal desorption characteristics of CO, O2 and CO2 on non-porous water, crystalline water and silicate surfaces at submonolayer and multilayer coverages. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	4.4	63
6	AKARI observations of ice absorption bands towards edge-on young stellar objects. Astronomy and Astrophysics, 2012, 538, A57.	5.1	59
7	Hydrogenation at low temperatures does not always lead to saturation: the case of HNCO. Astronomy and Astrophysics, 2015, 576, A91.	5.1	58
8	The thermal reactivity of HCN and NH3 in interstellar ice analogues. Monthly Notices of the Royal Astronomical Society, 2013, 428, 3262-3273.	4.4	48
9	Diffusion of molecules in the bulk of a low density amorphous ice from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2015, 17, 11455-11468.	2.8	48
10	A SURVEY OF H₂O, CO₂, AND CO ICE FEATURES TOWARD BACKGROUND STARS AND LOW-MASS YOUNG STELLAR OBJECTS USINGAKARI. Astrophysical Journal, 2013, 775, 85.	4.5	37
11	Roadmap on dynamics of molecules and clusters in the gas phase. European Physical Journal D, 2021, 75, 1.	1.3	32
12	Water formation through O2 + D pathway on cold silicate and amorphous water ice surfaces of interstellar interest. Journal of Chemical Physics, 2012, 137, 234706.	3.0	27
13	Kinetics of the NH₃and CO₂solid-state reaction at low temperature. Physical Chemistry Chemical Physics, 2014, 16, 23604-23615.	2.8	27
14	Theoretical determination of adsorption and ionisation energies of polycyclic aromatic hydrocarbons on water ice. Physical Chemistry Chemical Physics, 2018, 20, 11941-11953.	2.8	24
15	Efficient photochemistry of coronene:water complexes. Astronomy and Astrophysics, 2017, 599, A124.	5.1	21
16	Adsorption of PAHs on interstellar ice viewed by classical molecular dynamics. Physical Chemistry Chemical Physics, 2018, 20, 8753-8764.	2.8	21
17	Unveiling the Surface Structure of Amorphous Solid Water via Selective Infrared Irradiation of OH Stretching Modes. Journal of Physical Chemistry Letters, 2014, 5, 826-829.	4.6	20
18	Reactivity in interstellar ice analogs: role of the structural evolution. Astronomy and Astrophysics, 2018, 614, A107.	5.1	19

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19	Formation of coronene:water complexes: FTIR study in argon matrices and theoretical characterisation. Physical Chemistry Chemical Physics, 2017, 19, 8516-8529.	2.8	17
20	Photoinduced water oxidation in pyrimidineâ€“water clusters: a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2020, 22, 12502-12514.	2.8	16
21	IR Selective Irradiations of Amorphous Solid Water Dangling Modes: Irradiation vs Annealing Effects. Journal of Physical Chemistry C, 2014, 118, 20488-20495.	3.1	15
22	The electronic spectra of protonated nitrogen-substituted polycyclic aromatic hydrocarbon molecules. Astronomy and Astrophysics, 2015, 577, A79.	5.1	15
23	Perturbation of the Surface of Amorphous Solid Water by the Adsorption of Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry C, 2020, 124, 2994-3001.	3.1	14
24	Influence of ice structure on the soft UV photochemistry of PAHs embedded in solid water. Astronomy and Astrophysics, 2020, 644, A22.	5.1	14
25	On the benefits of using multivariate analysis in mass spectrometric studies of combustion-generated aerosols. Faraday Discussions, 2019, 218, 115-137.	3.2	13
26	Infrared Resonant Vibrationally Induced Restructuring of Amorphous Solid Water. Journal of Physical Chemistry C, 2020, 124, 20864-20873.	3.1	12
27	Segregation of O₂and CO on the surface of dust grains determines the desorption energy of O₂. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2636-2646.	4.4	11
28	Tautomerism and electronic spectroscopy of protonated 1- and 2-aminonaphthalene. Physical Chemistry Chemical Physics, 2018, 20, 6134-6145.	2.8	11
29	Two-dimensional ice mapping of molecular cores. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4753-4762.	4.4	10
30	Ice Nucleation Activities of Carbon-Bearing Materials in Deposition Mode: From Graphite to Airplane Soot Surrogates. Journal of Physical Chemistry C, 2020, 124, 489-503.	3.1	10
31	Electronic Spectroscopy of Protonated 1â€Aminopyrene in a Cold Ion Trap. Chemistry - an Asian Journal, 2017, 12, 1523-1531.	3.3	9
32	Photodetachment of deprotonated aromatic amino acids: stability of the dehydrogenated radical depends on the deprotonation site. Physical Chemistry Chemical Physics, 2019, 21, 23346-23354.	2.8	9
33	Ultrafast electronic relaxations from the S₃ state of pyrene. Physical Chemistry Chemical Physics, 2019, 21, 14111-14125.	2.8	8
34	Ultraviolet and vacuum ultraviolet photo-processing of protonated benzonitrile (C₆H₅CNH⁺). Astronomy and Astrophysics, 2022, 657, A85.	5.1	8
35	Inhomogeneity of the amorphous solid water dangling bonds. Physical Chemistry Chemical Physics, 2015, 17, 9429-9435.	2.8	7
36	Influence of the N atom position on the excited state photodynamics of protonated azaindole. Physical Chemistry Chemical Physics, 2020, 22, 27280-27289.	2.8	7

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37	Chemical discrimination of the particulate and gas phases of miniCAST exhausts using a two-filter collection method. Atmospheric Measurement Techniques, 2020, 13, 951-967.	3.1	7
38	Photofragmentation and electron detachment of aromatic phosphonate, sulfonate and phosphate oxyanions. European Physical Journal D, 2021, 75, 1.	1.3	6
39	Infrared free-electron laser irradiation of carbon dioxide ice. Journal of Molecular Spectroscopy, 2022, 385, 111601.	1.2	6
40	Influence of the N atom and its position on electron photodetachment of deprotonated indole and azaindole. Physical Chemistry Chemical Physics, 2020, 22, 27290-27299.	2.8	5
41	Model Guided Application for Investigating Particle Number (PN) Emissions in GDI Spark Ignition Engines. SAE International Journal of Advances and Current Practices in Mobility, 0, 1, 76-88.	2.0	5
42	Supplementary information on the near-infrared spectroscopic data of the infrared camera (IRC) onboard AKARI. Proceedings of SPIE, 2012, , .	0.8	4
43	Infrared Photoisomerization of 1-Propanol CD₃ and OD Trapped in Four Cryogenic Matrices: Ne, N₂, Ar, and Xe. Journal of Physical Chemistry A, 2015, 119, 1137-1145.	2.5	4
44	IRFEL Selective Irradiation of Amorphous Solid Water: from Dangling to Bulk Modes. Journal of Physical Chemistry A, 2022, 126, 2262-2269.	2.5	4
45	Water Clusters in Interaction with Corannulene in a Rare Gas Matrix: Structures, Stability and IR Spectra. Photochem, 2022, 2, 237-262.	2.2	4
46	Pre-Dewar structure modulates protonated azaindole photodynamics. Physical Chemistry Chemical Physics, 2022, 24, 12346-12353.	2.8	4
47	Photochemistry of Fe:H₂O Adducts in Argon Matrixes: A Combined Experimental and Theoretical Study in the Mid-IR and UVâ€“Visible Regions. Journal of Physical Chemistry A, 2018, 122, 529-542.	2.5	3
48	Loss of CO2 from Monodeprotonated Phthalic Acid upon Photodissociation and Dissociative Electron Detachment. Journal of Physical Chemistry A, 2021, 125, 7406-7413.	2.5	2
49	Spectroscopic Measurements of Methane Solidâ€“Gas Equilibrium Clapeyron Curve between 40 and 77 K. Journal of Physical Chemistry A, 2019, 123, 3518-3534.	2.5	1
50	2D mapping of ice species in molecular cores. Proceedings of the International Astronomical Union, 2009, 5, 730-730.	0.0	0
51	The formation of carbon dioxide in molecular cores by a non-energetic route. EAS Publications Series, 2012, 58, 353-356.	0.3	0
52	Thermal Reactivity Dynamics in Interstellar Ice. Astrophysics and Space Science Library, 2018, , 149-155.	2.7	0
53	Excited States Processes in Protonated Molecules Studied by Frequency-Domain Spectroscopy. , 2019, , 337-365.		0