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Infrared band extinctions and complex refractive indices of crystalline C₂H₂ and C₄H₂

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Icarus, 1988, 73, 527-535.

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#	Paper	IF	Citations
34	Infrared spectroscopy and Mie scattering of acetylene aerosols formed in a low temperature diffusion cell. <i>Journal of Chemical Physics</i> , 1990 , 93, 3693-3703	3.9	37
33	Optical Properties of Organic-based Aerosols Produced by Burning Vegetation. <i>Aerosol Science and Technology</i> , 1991 , 14, 331-342	3.4	29
32	Infrared Properties of Atmospheric Aerosol Constituents: Polyaromatic Hydrocarbons and Terpenes. <i>Aerosol Science and Technology</i> , 1994 , 20, 62-70	3.4	7
31	Production and evolution of carbonaceous material by ion irradiation in space. <i>Advances in Space Research</i> , 1995 , 15, 385-99	2.4	14
30	Structure and Bonding of C ₂ H ₂ on Diamond C(111)1:1:H: Infrared Spectroscopy and Exciton Calculations. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 7018-7025		8
29	Plausible condensates in Titan's stratosphere from Voyager infrared spectra. <i>Planetary and Space Science</i> , 1999 , 47, 1305-1329	2	126
28	Step-scan Fourier transform infrared absorption spectroscopy of acetylene monomer and solid in a supersonic free jet. <i>Chemical Physics Letters</i> , 2002 , 361, 265-270	2.5	14
27	Step-Scan Fourier-Transform Infrared Absorption Spectroscopy of Cubic Solid Acetylene Clusters. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 4829-4833	2.8	10
26	Condensed species in Titan's stratosphere: Confirmation of crystalline cyanoacetylene (HC ₃ N) and evidence for crystalline acetylene (C ₂ H ₂) on Titan. <i>Icarus</i> , 2005 , 178, 165-170	3.8	42
25	Polarization infrared spectroscopy study of quasi-orthorhombic acetylene thin films on KCl (100). <i>Physical Review B</i> , 2006 , 73,	3.3	7
24	Infrared spectroscopy of crystalline and amorphous diacetylene (C ₄ H ₂) and implications for Titan's atmospheric composition. <i>Planetary and Space Science</i> , 2009 , 57, 830-835	2	8
23	Spectroscopy of Icy Moon Surface Materials. <i>Space Science Reviews</i> , 2010 , 153, 219-247	7.5	21
22	Infrared spectroscopy and vibrational exciton modeling of crystalline, polycrystalline and amorphous acetylene aerosol particles. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7924-33	3.6	16
21	On the chemical processing of hydrocarbon surfaces by fast oxygen ions. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 17870-84	3.6	18
20	The formation and stability of co-crystalline NH ₃ [C ₂ H ₂] aerosol particles. <i>Molecular Physics</i> , 2012 , 110, 2807-2815	1.7	8
19	Infrared spectroscopy and modeling of co-crystalline CO ₂ [C ₂ H ₂] aerosol particles. II. The structure and shape of co-crystalline CO ₂ [C ₂ H ₂] aerosol particles. <i>Journal of Chemical Physics</i> , 2012 , 136, 094510	3.9	6
18	Infrared spectra and optical constants of astronomical ices: I. Amorphous and crystalline acetylene. <i>Icarus</i> , 2014 , 228, 276-287	3.8	55

17	Swift heavy ion irradiation of interstellar dust analogues. <i>Astronomy and Astrophysics</i> , 2017 , 599, A130	5.1	11
16	Identification of crystalline structures in jet-cooled acetylene large clusters studied by two-dimensional correlation infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2017 , 147, 044302	3.9	6
15	Organic Ices in Titan's Stratosphere. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	27
14	The SPECTRAL Ice Chamber: Application to Titan's Stratospheric Ice Clouds. <i>Astrophysical Journal</i> , 2018 , 865, 62	4.7	7
13	Detailed infrared study of amorphous to crystalline propionitrile ices relevant to observed spectra of Titan's stratospheric ice clouds. <i>Icarus</i> , 2019 , 333, 183-198	3.8	5
12	Desorption Kinetics and Binding Energies of Small Hydrocarbons. <i>Astrophysical Journal</i> , 2019 , 875, 73	4.7	8
11	A major ice component in Pluto's haze. <i>Nature Astronomy</i> , 2021 , 5, 289-297	12.1	8
10	Cooperativity of the Activated CH ₂ Interaction Probed through CH Stretching Vibrations in Phenol-(Acetylene) (~16:30) and (Acetylene) (10:70) Clusters. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 3885-3891	2.8	
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6	Structures and Other Properties of Polyynes and their Isomers. 2005 , 371-424		1
5	Spectroscopy of Icy Moon Surface Materials. <i>Space Sciences Series of ISSI</i> , 2010 , 217-245	0.1	
4	Chemical Alterations in Ion Irradiated Frozen Hydrocarbons. <i>Astrophysics and Space Science Library</i> , 1990 , 9-16	0.3	
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2	Infrared Spectra, Optical Constants, and Temperature Dependences of Amorphous and Crystalline Benzene Ices Relevant to Titan. <i>Astrophysical Journal</i> , 2022 , 925, 123	4.7	2
1	Impacts of Organic Ice Condensation on the Optical Properties of Haze on Pluto. 2023 , 4, 17		0