Bernard Schmitt

List of Publications by Year
in descending order

198	13,922	22132	22147
papers	citations	59 h-index	113 g-index

218	218	218	6589
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	VIS-IR spectroscopy of magnesium chlorides at cryogenic temperatures. Icarus, 2022, 373, 114756.	1.1	4
2	Volatile transport modeling on Triton with new observational constraints. Icarus, 2022, 373, 114764.	1.1	7
3	Geometry induced bias in the remote near-IR identification of phyllosilicates on space weathered bodies. Icarus, 2022, 376, 114887.	1.1	3
4	Large-scale cryovolcanic resurfacing on Pluto. Nature Communications, 2022, 13, 1542.	5.8	15
5	Reflectance spectra (1â€“5ÂÎ¼m) at low temperatures and different grain sizes of ammonium-bearing minerals relevant for icy bodies. Icarus, 2022, 382, 115055.	1.1	8
6	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. Planetary Science Journal, 2022, 3, 112.	1.5	15
7	Cryovolcanic flooding in Viking Terra on Pluto. Icarus, 2021, 356, 113786.	1.1	9
8	Global compositional cartography of Pluto from intensity-based registration of LEISA data. Icarus, 2021, 356, 113833.	1.1	9
9	Distribution and energy balance of Plutoâ€™s nitrogen ice, as seen by New Horizons in 2015. Icarus, 2021, 356, 113633.	1.1	6
10	Temperature-dependent, VIS-NIR reflectance spectroscopy of sodium sulfates. Icarus, 2021, 357, 114165.	1.1	7
11	Visible and near-infrared reflectance of hyperfine and hyperporous particulate surfaces. Icarus, 2021, 357, 114141.	1.1	13
12	Low-phase spectral reflectance and equivalent â€œgeometric albedoâ€•of meteorites powders. Icarus, 2021, 354, 114066.	1.1	14
13	Dwarf planet (1) Ceres surface bluing due to high porosity resulting from sublimation. Nature Communications, 2021, 12, 274.	5.8	10
14	How to distinguish red coloring matter used in prehistoric time? The contribution of visible nearâ€infrared diffuse reflectance spectroscopy. Color Research and Application, 2021, 46, 653-673.	0.8	7
15	â€œWaterâ€•abundance at the surface of C-complex main-belt asteroids. Icarus, 2021, 357, 114125.	1.1	18
16	On the origin & thermal stability of Arrokoth's and Pluto's ices. Icarus, 2021, 356, 114072.	1.1	31
17	Modeling Plutoâ€™s minimum pressure: Implications for haze production. Icarus, 2021, 356, 114070.	1.1	10
18	Pluto's Sputnik Planitia: Composition of geological units from infrared spectroscopy. Icarus, 2021, 359, 114303.	1.1	5

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19	The Detectability Limit of Organic Molecules Within Mars South Polar Laboratory Analogs. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006595.	1.5	1
20	A radiolytic origin of organic matter in primitive chondrites and trans-neptunian objects? New clues from ion irradiation experiments. Icarus, 2021, 364, 114462.	1.1	4
21	Testing tholins as analogues of the dark reddish material covering Plutoâ€™s Cthulhu region. Icarus, 2021, 367, 114574.	1.1	6
22	VIS-IR Spectroscopy of Mixtures of Water Ice, Organic Matter, and Opaque Mineral in Support of Small Body Remote Sensing Observations. Minerals (Basel, Switzerland), 2021, 11, 1222.	0.8	4
23	VIS-NIR/SWIR Spectral Properties of H2O Ice Depending on Particle Size and Surface Temperature. Minerals (Basel, Switzerland), 2021, 11, 1328.	0.8	6
24	Equatorial mountains on Pluto are covered by methane frosts resulting from a unique atmospheric process. Nature Communications, 2020, 11, 5056.	5.8	12
25	Mineralogy, chemistry, and composition of organic compounds in the fresh carbonaceous chondrite Mukundpura: CM1 or CM2?. Meteoritics and Planetary Science, 2020, 55, 1681-1696.	0.7	10
26	A Decade with VAMDC: Results and Ambitions. Atoms, 2020, 8, 76.	0.7	53
27	Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids. Science, 2020, 367, .	6.0	115
28	Spectral investigation of Ceres analogue mixtures: In-depth analysis of crater central peak material (ccp) on Ceres. Icarus, 2020, 343, 113692.	1.1	4
29	A model of the 3-Î¼m hydration band with Exponentially Modified Gaussian (EMG) profiles: Application to hydrated chondrites and asteroids. Icarus, 2020, 343, 113686.	1.1	9
30	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, .	6.0	64
31	Style and intensity of hydration among C-complex asteroids: A comparison to desiccated carbonaceous chondrites. Icarus, 2020, 348, 113826.	1.1	20
32	Pluto's Beating Heart Regulates the Atmospheric Circulation: Results From Highâ€Resolution and Multiyear Numerical Climate Simulations. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006120.	1.5	16
33	Virtual European Solar & Planetary Access (VESPA): A Planetary Science Virtual Observatory Cornerstone. Data Science Journal, 2020, 19, .	0.6	7
34	Some things special about NEAs: Geometric and environmental effects on the optical signatures of hydration. Icarus, 2019, 333, 415-428.	1.1	23
35	Detection of ammonia on Plutoâ€™s surface in a region of geologically recent tectonism. Science Advances, 2019, 5, eaav5731.	4.7	49
36	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. Science, 2019, 364, .	6.0	113

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37	The changing temperature of the nucleus of comet 67P induced by morphological and seasonal effects. Nature Astronomy, 2019, 3, 649-658.	4.2	34
38	The CH4 cycles on Pluto over seasonal and astronomical timescales. Icarus, 2019, 329, 148-165.	1.1	38
39	Recent cryovolcanism in Virgil Fossae on Pluto. Icarus, 2019, 330, 155-168.	1.1	45
40	Prebiotic Chemistry of Pluto. Astrobiology, 2019, 19, 831-848.	1.5	26
41	Kuiper Belt object 2014MU₆₉, Pluto and Phoebe as windows on the composition of the early solar nebula. Proceedings of the International Astronomical Union, 2019, 15, 91-95.	0.0	1
42	Spectroscopy of Pluto and Its Satellites. , 2019, , 442-452.		0
43	NIR reflectance spectroscopy of hydrated and anhydrous sodium carbonates at different temperatures. Icarus, 2019, 317, 388-411.	1.1	18
44	The distribution of H2O, CH3OH, and hydrocarbon-ices on Pluto: Analysis of New Horizons spectral images. Icarus, 2019, 331, 148-169.	1.1	21
45	Washboard and fluted terrains on Pluto as evidence for ancient glaciation. Nature Astronomy, 2019, 3, 62-68.	4.2	10
46	TheÂnitrogenÂcyclesÂonÂPlutoÂoverÂseasonalÂand astronomicalÂtimescales. Icarus, 2018, 309, 277-296.	1.1	54
47	The Spectral Nature of Titan's Major Geomorphological Units: Constraints on Surface Composition. Journal of Geophysical Research E: Planets, 2018, 123, 489-507.	1.5	33
48	Study of Titanâ€™s fall southern stratospheric polar cloud composition with Cassini/CIRS: Detection of benzene ice. Icarus, 2018, 310, 89-104.	1.1	46
49	VESPA: A community-driven Virtual Observatory in Planetary Science. Planetary and Space Science, 2018, 150, 65-85.	0.9	28
50	Laboratory simulations of the Vis-NIR spectra of comet 67P using sub-Âµm sized cosmochemical analogues. Icarus, 2018, 306, 306-318.	1.1	23
51	Bladed Terrain on Pluto: Possible origins and evolution. Icarus, 2018, 300, 129-144.	1.1	47
52	What is controlling the reflectance spectra (0.35â€“150â€¯Âµm) of hydrated (and dehydrated) carbonaceous chondrites?. Icarus, 2018, 313, 124-138.	1.1	32
53	Composition of Plutoâ€™s small satellites: Analysis of New Horizons spectral images. Icarus, 2018, 315, 30-45.	1.1	49
54	Pluto's haze as a surface material. Icarus, 2018, 314, 232-245.	1.1	50

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55	Methane distribution on Pluto as mapped by the New Horizons Ralph/MVIC instrument. Icarus, 2018, 314, 195-209.	1.1	14
56	Tritonâ€™s surface ices: Distribution, temperature and mixing state from VLT/SINFONI observations. Icarus, 2018, 314, 274-293.	1.1	20
57	SHADOWS: a spectro-gonio radiometer for bidirectional reflectance studies of dark meteorites and terrestrial analogs: design, calibrations, and performances on challenging surfaces. Applied Optics, 2018, 57, 8279.	0.9	40
58	Inflight radiometric calibration of New Horizonsâ€™ Multispectral Visible Imaging Camera (MVIC). Icarus, 2017, 287, 140-151.	1.1	14
59	Geological mapping of Sputnik Planitia on Pluto. Icarus, 2017, 287, 261-286.	1.1	52
60	Pluto: Pits and mantles on uplands north and east of Sputnik Planitia. Icarus, 2017, 293, 218-230.	1.1	24
61	Physical state and distribution of materials at the surface of Pluto from New Horizons LEISA imaging spectrometer. Icarus, 2017, 287, 229-260.	1.1	99
62	Plutoâ€™s global surface composition through pixel-by-pixel Hapke modeling of New Horizons Ralph/LEISA data. Icarus, 2017, 287, 218-228.	1.1	95
63	The Global Color of Pluto from New Horizons. Astronomical Journal, 2017, 154, 258.	1.9	25
64	Temperature-dependent VNIR spectroscopy of hydrated Mg-sulfates. Icarus, 2017, 281, 444-458.	1.1	16
65	Retrieving the characteristics of slab ice covering snow by remote sensing. Cryosphere, 2016, 10, 2113-2128.	1.5	3
66	The virtual atomic and molecular data centre (VAMDC) consortium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074003.	0.6	120
67	Detection of exposed H₂O ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 595, A102.	2.1	67
68	Refractory and semi-volatile organics at the surface of comet 67P/Churyumov-Gerasimenko: Insights from the VIRTIS/Rosetta imaging spectrometer. Icarus, 2016, 272, 32-47.	1.1	127
69	The global surface composition of 67P/CG nucleus by Rosetta/VIRTIS. (I) Prelanding mission phase. Icarus, 2016, 274, 334-349.	1.1	54
70	Evolution of CO₂, CH₄, and OCS abundances relative to H₂O in the coma of comet 67P around perihelion fromRosetta/VIRTIS-H observations. Monthly Notices of the Royal Astronomical Society, 2016, 462, S170-S183.	1.6	72
71	The formation of Charonâ€™s red poles from seasonally cold-trapped volatiles. Nature, 2016, 539, 65-68.	13.7	44
72	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Science, 2016, 354, 1563-1566.	6.0	61

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73	Exposed water ice on the nucleus of comet 67P/Churyumovâ€“Gerasimenko. Nature, 2016, 529, 368-372.	13.7	104
74	The small satellites of Pluto as observed by New Horizons. Science, 2016, 351, aae0030.	6.0	78
75	Surface compositions across Pluto and Charon. Science, 2016, 351, aad9189.	6.0	242
76	Bidirectional reflectance spectroscopy of carbonaceous chondrites: Implications for water quantification and primary composition. Icarus, 2016, 264, 172-183.	1.1	38
77	A Noachian source region for the â€œBlack Beautyâ€•meteorite, and a source lithology for Mars surface hydrated dust?. Earth and Planetary Science Letters, 2015, 427, 104-111.	1.8	24
78	First observations of H₂O and CO₂vapor in comet 67P/Churyumov-Gerasimenko made by VIRTIS onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A6.	2.1	77
79	Photometric properties of comet 67P/Churyumov-Gerasimenko from VIRTIS-M onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A31.	2.1	71
80	Hydrogen isotope exchanges between water and methanol in interstellar ices. Astronomy and Astrophysics, 2015, 584, A98.	2.1	27
81	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. Science, 2015, 347, aaa0628.	6.0	293
82	Low-temperature reflectance spectra of brucite and the primitive surface of 1-Ceres?. Icarus, 2015, 257, 471-476.	1.1	13
83	The diurnal cycle of water ice on comet 67P/Churyumovâ€“Gerasimenko. Nature, 2015, 525, 500-503.	13.7	199
84	Kinetics of hydrogen/deuterium exchanges in cometary ices. Icarus, 2015, 261, 14-30.	1.1	12
85	VIRTIS on Rosetta: a unique technique to observe comet 67P/Churyumov-Gerasimenko â€“ first results and prospects. Proceedings of SPIE, 2015, , .	0.8	4
86	Radiative transfer model for contaminated rough slabs. Applied Optics, 2015, 54, 9228.	2.1	10
87	Clathrate hydrate FTIR spectroscopy - infrared signatures, astrophysical significance. BIO Web of Conferences, 2014, 2, 03005.	0.1	1
88	How to link the relative abundances of gas species in coma of comets to their initial chemical composition?. Icarus, 2014, 242, 225-248.	1.1	36
89	The secondary history of Sutter's Mill CM carbonaceous chondrite based on water abundance and the structure of its organic matter from two clasts. Meteoritics and Planetary Science, 2014, 49, 2064-2073.	0.7	21
90	Planetary Science Virtual Observatory architecture. Astronomy and Computing, 2014, 7-8, 71-80.	0.8	10

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91	Spectroscopy and detectability of liquid brines on mars. Planetary and Space Science, 2014, 92, 136-149.	0.9	31
92	Transmission infrared spectra (2â€“25Î¼m) of carbonaceous chondrites (CI, CM, CVâ€“CK, CR, C2) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.1	114
93	The abundance and stability of â€œwaterâ€•in type 1 and 2 carbonaceous chondrites (CI, CM and CR). Geochimica Et Cosmochimica Acta, 2014, 137, 93-112.	1.6	104
94	Mid-infrared study of the molecular structure variability of insoluble organic matter from primitive chondrites. Icarus, 2013, 223, 534-543.	1.1	85
95	Gasâ€“solid carbonation as a possible source of carbonates in cold planetary environments. Planetary and Space Science, 2013, 76, 28-41.	0.9	9
96	The Ices on Transneptunian Objects and Centaurs. Astrophysics and Space Science Library, 2013, , 107-146.	1.0	10
97	Clathrate hydrates : ftir spectroscopy for astrophysical remote detection. EAS Publications Series, 2012, 58, 219-224.	0.3	4
98	Equilibrium Pressure of Ethane, Acetylene, and Krypton Clathrate Hydrates below the Freezing Point of Water. Journal of Chemical & Engineering Data, 2012, 57, 3408-3415.	1.0	11
99	A cometary nucleus model taking into account all phase changes of water ice: amorphous, crystalline, and clathrate. Astronomy and Astrophysics, 2012, 542, A82.	2.1	41
100	Hydrogen sulfide clathrate hydrate FTIR spectroscopy: A help gas for clathrate formation in the Solar System?. Icarus, 2012, 220, 427-434.	1.1	12
101	Aphelion waterâ€•ice cloud mapping and property retrieval using the OMEGA imaging spectrometer onboard Mars Express. Journal of Geophysical Research, 2012, 117, .	3.3	42
102	The redox state of iron in the matrix of CI, CM and metamorphosed CM chondrites by XANES spectroscopy. Geochimica Et Cosmochimica Acta, 2012, 99, 305-316.	1.6	36
103	Photometry of meteorites. Icarus, 2012, 218, 364-377.	1.1	58
104	Pressure dependent trace gas trapping in amorphous water ice at 77 K: Implications for determining conditions of comet formation. Icarus, 2012, 218, 760-770.	1.1	28
105	Winter and spring evolution of northern seasonal deposits on Mars from OMEGA on Mars Express. Journal of Geophysical Research, 2011, 116, .	3.3	79
106	Goethite as an alternative origin of the 3.1Î¼m band on dark asteroids. Astronomy and Astrophysics, 2011, 526, A85.	2.1	46
107	On the stability of clathrate hydrates in comets 67P/Churyumov-Gerasimenko and 46P/Wirtanen. Astronomy and Astrophysics, 2011, 525, A144.	2.1	18
108	NIR spectral trends of HED meteorites: Can we discriminate between the magmatic evolution, mechanical mixing and observation geometry effects?. Icarus, 2011, 216, 560-571.	1.1	39

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109	VAMDCâ€"The Virtual Atomic and Molecular Data Centreâ€"A New Way to Disseminate Atomic and Molecular Dataâ€"VAMDC Level 1 Release. AIP Conference Proceedings, 2011, , .	0.3	24
110	The Surface Composition and Temperature of Asteroid 21 Lutetia As Observed by Rosetta/VIRTIS. Science, 2011, 334, 492-494.	6.0	110
111	Goethite as an alternative origin of the 3.1Î¼m band on dark asteroids (Corrigendum). Astronomy and Astrophysics, 2011, 530, C2.	2.1	1
112	A TENTATIVE IDENTIFICATION OF HCN ICE ON TRITON. Astrophysical Journal Letters, 2010, 718, L53-L57.	3.0	51
113	IMPACT REGIMES AND POST-FORMATION SEQUESTRATION PROCESSES: IMPLICATIONS FOR THE ORIGIN OF HEAVY NOBLE GASES IN TERRESTRIAL PLANETS. Astrophysical Journal, 2010, 714, 1418-1423.	1.6	9
114	High-accuracy measurements of snow Bidirectional Reflectance Distribution Function at visible and NIR wavelengths â€“ comparison with modelling results. Atmospheric Chemistry and Physics, 2010, 10, 2507-2520.	1.9	98
115	Sublimation of the Martian CO2 Seasonal South Polar Cap. Planetary and Space Science, 2010, 58, 1129-1138.	0.9	15
116	Virtual atomic and molecular data centre. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2151-2159.	1.1	164
117	The 3â€“5MHz global reflectivity map of Mars by MARSIS/Mars Express: Implications for the current inventory of subsurface H2O. Icarus, 2010, 210, 612-625.	1.1	82
118	CLATHRATE HYDRATES FORMATION IN SHORT-PERIOD COMETS. Astrophysical Journal, 2010, 708, 812-816.	1.6	27
119	Equilibrium Data of Methane, Carbon Dioxide, and Xenon Clathrate Hydrates below the Freezing Point of Water. Applications to Astrophysical Environments. Journal of Chemical & Engineering Data, 2010, 55, 5101-5108.	1.0	34
120	Martian atmosphere as observed by VIRTISâ€M on Rosetta spacecraft. Journal of Geophysical Research, 2010, 115, .	3.3	10
121	Kinetics of water adsorption on minerals and the breathing of the Martian regolith. Journal of Geophysical Research, 2010, 115, .	3.3	32
122	Hydrous mineralogy of CM and CI chondrites from infrared spectroscopy and their relationship with low albedo asteroids. Geochimica Et Cosmochimica Acta, 2010, 74, 4881-4892.	1.6	136
123	Very high resolution mass spectrometry of HCN polymers and tholins. Faraday Discussions, 2010, 147, 495.	1.6	49
124	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	1.6	77
125	Albedo control of seasonal South Polar cap recession on Mars. Icarus, 2009, 200, 374-394.	1.1	32
126	Water sorption on martian regolith analogs: Thermodynamics and near-infrared reflectance spectroscopy. Icarus, 2009, 204, 114-136.	1.1	63

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127	Sublimation of ices of astrophysical interest: A bibliographic review. Planetary and Space Science, 2009, 57, 2053-2080.	0.9	263
128	Carbon dioxide clathrate hydrate FTIR spectrum. Astronomy and Astrophysics, 2009, 504, 869-873.	2.1	40
129	Low temperature CH₄ and CO₂ clathrate hydrate near to mid-IR spectra. Proceedings of the International Astronomical Union, 2009, 5, 33-36.	0.0	1
130	STRATIFICATION OF METHANE ICE ON ERIS' SURFACE. Astronomical Journal, 2009, 137, 315-328.	1.9	55
131	VIRTIS: An Imaging Spectrometer for the ROSETTA Mission. , 2009, , 563-585.		3
132	Hydrogen/deuterium exchange in interstellar ice analogs. Astronomy and Astrophysics, 2009, 496, L21-L24.	2.1	46
133	S2O, polysulfuroxide and sulfur polymer on Io's surface?. Icarus, 2008, 194, 647-659.	1.1	20
134	New laboratory measurements of CH4 in Titan's conditions and a reanalysis of the DISR near-surface spectra at the Huygens landing site. Planetary and Space Science, 2008, 56, 613-623.	0.9	20
135	New experimental constraints on the composition and structure of tholins. Icarus, 2008, 198, 218-231.	1.1	144
136	Strength of the H₂O nearâ€infrared absorption bands in hydrated minerals: Effects of particle size and correlation with albedo. Journal of Geophysical Research, 2008, 113, .	3.3	25
137	Strength of the H₂O nearâ€infrared absorption bands in hydrated minerals: Effects of measurement geometry. Journal of Geophysical Research, 2008, 113, .	3.3	21
138	Tholins and their relevance for astrophysical issues. Proceedings of the International Astronomical Union, 2008, 4, 409-416.	0.0	4
139	Sequestration of Ethane in the Cryovolcanic Subsurface of Titan. Astrophysical Journal, 2008, 677, L67-L70.	1.6	57
140	Pluto's Spectrum from 1.0 to 4.2 Î¼m: Implications for Surface Properties. Astronomical Journal, 2007, 133, 420-431.	1.9	47
141	WAVANGLET: An Efficient Supervised Classifier for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1374-1385.	2.7	41
142	South Pole of Mars: Nature and composition of the icy terrains from Mars Express OMEGA observations. Planetary and Space Science, 2007, 55, 113-133.	0.9	60
143	Water vapor mapping on Mars using OMEGA/Mars Express. Planetary and Space Science, 2007, 55, 333-342.	0.9	50
144	Virtis: An Imaging Spectrometer for the Rosetta Mission. Space Science Reviews, 2007, 128, 529-559.	3.7	181

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145	No signature of clear CO2 ice from the â€˜crypticâ€™ regions in Mars' south seasonal polar cap. Nature, 2006, 442, 790-792.	13.7	54
146	Titan's 3-micron spectral region from ISO high-resolution spectroscopy. Icarus, 2006, 180, 176-185.	1.1	74
147	Reflectance spectra and chemical structure of Titan's tholins: Application to the analysis of Cassiniâ€“Huygens observations. Icarus, 2006, 185, 301-307.	1.1	84
148	Titan's surface albedo variations over a Titan season from near-infrared CFHT/FTS spectra. Planetary and Space Science, 2006, 54, 1225-1246.	0.9	47
149	Global Mineralogical and Aqueous Mars History Derived from OMEGA/Mars Express Data. Science, 2006, 312, 400-404.	6.0	1,395
150	Near-infrared study of Titan's resolved disk in spectro-imaging with CFHT/OASIS. Planetary and Space Science, 2005, 53, 535-556.	0.9	12
151	Phyllosilicates on Mars and implications for early martian climate. Nature, 2005, 438, 623-627.	13.7	825
152	Mars Surface Diversity as Revealed by the OMEGA/Mars Express Observations. Science, 2005, 307, 1576-1581.	6.0	842
153	Summer Evolution of the North Polar Cap of Mars as Observed by OMEGA/Mars Express. Science, 2005, 307, 1581-1584.	6.0	142
154	Rain, winds and haze during the Huygens probe's descent to Titan's surface. Nature, 2005, 438, 765-778.	13.7	529
155	Perennial water ice identified in the south polar cap of Mars. Nature, 2004, 428, 627-630.	13.7	279
156	Titan's 5-micron lightcurve. Icarus, 2004, 168, 209-214.	1.1	31
157	Geology and activity around volcanoes on Io from the analysis of NIMS spectral images. Icarus, 2004, 169, 175-196.	1.1	30
158	Spectrogonio radiometer for the study of the bidirectional reflectance and polarization functions of planetary surfaces 1 Design and tests. Applied Optics, 2004, 43, 1926.	2.1	53
159	Titan's 5-Î¼m window: observations with the Very Large Telescope. Icarus, 2003, 162, 125-142.	1.1	51
160	Possible identification of local deposits of Cl2SO2 on Io from NIMS/Galileo spectra. Journal of Geophysical Research, 2003, 108, 8-1-8-19.	3.3	32
161	The Temperature-Dependent Spectrum of Methane Ice I between 0.7 and 5 Î¼m and Opportunities for Near-Infrared Remote Thermometry. Icarus, 2002, 155, 486-496.	1.1	135
162	Dynamics and Evolution of SO2 Gas Condensation around Prometheus-like Volcanic Plumes on Io as Seen by the Near Infrared Mapping Spectrometer. Icarus, 2002, 158, 460-482.	1.1	33

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163	Observations of planetary satellites with ISO. Advances in Space Research, 2002, 30, 1971-1977.	1.2	4
164	The complete ISO spectrum of NGC 6302. Astronomy and Astrophysics, 2001, 372, 165-172.	2.1	65
165	Mapping SO2 Frost on Io by the Modeling of NIMS Hyperspectral Images. Icarus, 2001, 149, 107-132.	1.1	114
166	Photometric and spectroscopic observations of Sycorax, satellite of Uranus. Astronomy and Astrophysics, 2001, 376, 310-315.	2.1	28
167	Experimental system for the study of planetary surface materials' BRDF. International Journal of Remote Sensing, 2000, 19, 59-74.	1.1	5
168	Pluto's Non-isothermal Surface. Icarus, 2000, 147, 220-250.	1.1	63
169	Water Ice on Triton. Icarus, 2000, 147, 309-316.	1.1	66
170	Search for Variations in Pluto's Millimeter-Wave Emission. Icarus, 2000, 147, 580-584.	1.1	15
171	A Monte Carlo ray-tracing model for scattering and polarization by large particles with complex shapes. Journal of Geophysical Research, 2000, 105, 29291-29314.	3.3	38
172	Water Ice, Silicate, and Polycyclic Aromatic Hydrocarbon Emission Featuresin the [ITAL]Infrared Space Observatory[/ITAL] Spectrum of the Carbon-richPlanetary Nebula CPD â˜'56Â°8032. Astrophysical Journal, 1999, 513, L135-L138.	1.6	85
173	Silicate and ice emission bands in the ISO spectrum of the PAH-emitting carbon-rich planetary nebula CPD-56Â°8032. Symposium - International Astronomical Union, 1999, 191, 291-296.	0.1	0
174	Plausible condensates in Titanâ€™s stratosphere from Voyager infrared spectra. Planetary and Space Science, 1999, 47, 1305-1329.	0.9	134
175	Composition, Physical State, and Distribution of Ices at the Surface of Triton. Icarus, 1999, 139, 159-178.	1.1	194
176	Near-Infrared Spectra of Icy Outer Solar System Surfaces: Remote Determination of H2O Ice Temperatures. Icarus, 1999, 142, 536-549.	1.1	130
177	Evidence for Methane Segregation at the Surface of Pluto. Icarus, 1999, 142, 421-444.	1.1	149
178	Ethane on Pluto?. Science, 1999, 285, 1355c-1355.	6.0	2
179	Virtis : an imaging spectrometer for the rosetta mission. Planetary and Space Science, 1998, 46, 1291-1304.	0.9	72
180	The temperature-dependent near-infrared absorption spectrum of hexagonal H2O ice. Journal of Geophysical Research, 1998, 103, 25809-25822.	3.3	291

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