

# Vishnu Reddy

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Near-earth asteroid (66391) Moshup (1999 KW4) observing campaign: Results from a global planetary defense characterization exercise. <i>Icarus</i> , 2022, 374, 114790.	2.5	10
2	Connecting asteroids and meteorites with visible and near-infrared spectroscopy. <i>Icarus</i> , 2022, 380, 114971.	2.5	25
3	Near-infrared Spectroscopy of the Nucleus of Low-activity Comet P/2016 BA <sub>14</sub> during Its 2016 Close Approach. <i>Planetary Science Journal</i> , 2022, 3, 105.	3.6	0
4	Apophis Planetary Defense Campaign. <i>Planetary Science Journal</i> , 2022, 3, 123.	3.6	4
5	International Asteroid Warning Network Timing Campaign: 2019 XS. <i>Planetary Science Journal</i> , 2022, 3, 156.	3.6	6
6	Surfaces of (Nearly) Dormant Comets and the Recent History of the Quadrantid Meteor Shower. <i>Planetary Science Journal</i> , 2021, 2, 31.	3.6	5
7	Contemporaneous Multiwavelength and Precursor Observations of the Active Centaur P/2019 LD2 (ATLAS). <i>Planetary Science Journal</i> , 2021, 2, 48.	3.6	10
8	Constraining the Regolith Composition of Asteroid (16) Psyche via Laboratory Visible Near-infrared Spectroscopy. <i>Planetary Science Journal</i> , 2021, 2, 95.	3.6	9
9	Probable Detection of Water Ice in the Coma of the Inbound Long-period Comet C/2017 K2 (PanSTARRS). <i>Research Notes of the AAS</i> , 2021, 5, 153.	0.7	2
10	Characterization of Exogenic Boulders on the Near-Earth Asteroid (101955) Bennu from OSIRIS-REx Color Images. <i>Planetary Science Journal</i> , 2021, 2, 114.	3.6	5
11	Complex Water-ice Mixtures on NII Nereid: Constraints from NIR Reflectance. <i>Planetary Science Journal</i> , 2021, 2, 143.	3.6	2
12	Investigating the Relationship between (3200) Phaethon and (155140) 2005 UD through Telescopic and Laboratory Studies. <i>Planetary Science Journal</i> , 2021, 2, 190.	3.6	12
13	Physical Characterization of Metal-rich Near-Earth Asteroids 6178 (1986 DA) and 2016 ED85. <i>Planetary Science Journal</i> , 2021, 2, 205.	3.6	6
14	Lunar-like silicate material forms the Earth quasi-satellite (469219) 2016 HO3 Kamoʻoalewa. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	9
15	Constraining ordinary chondrite composition via near-infrared spectroscopy. <i>Icarus</i> , 2020, 336, 113426.	2.5	5
16	Near-earth asteroid: (285263) 1998 QE2. <i>Icarus</i> , 2020, 347, 113807.	2.5	1
17	Mineralogical Criteria for the Parent Asteroid of the "Carbonaceous" Achondrite NWA 6704. <i>Astronomical Journal</i> , 2020, 159, 107.	4.7	1
18	Carbon Chain Depletion of 2/Borisov. <i>Astrophysical Journal Letters</i> , 2020, 889, L38.	8.3	24

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19	Near-infrared observations of active asteroid (3200) Phaethon reveal no evidence for hydration. <i>Nature Communications</i> , 2020, 11, 2050.	12.8	21
20	A New Method for Deriving Composition of S-type Asteroids from Noisy and Incomplete Near-infrared Spectra. <i>Astronomical Journal</i> , 2020, 159, 146.	4.7	11
21	An Extremely Temporary Co-orbital: The Dynamical State of Active Centaur 2019 LD2. <i>Research Notes of the AAS</i> , 2020, 4, 74.	0.7	8
22	Distinguishing between Shock-darkening and Space-weathering Trends in Ordinary Chondrite Reflectance Spectra. <i>Planetary Science Journal</i> , 2020, 1, 37.	3.6	11
23	Physical Characterization of Active Asteroid (6478) Gault. <i>Astrophysical Journal Letters</i> , 2019, 881, L6.	8.3	16
24	Compositional Constraints for Lucy Mission Trojan Asteroids via Near-infrared Spectroscopy. <i>Astronomical Journal</i> , 2019, 158, 204.	4.7	16
25	Search for the H Chondrite Parent Body among the Three Largest S-type Asteroids: (3) Juno, (7) Iris, and (25) Phocaea. <i>Astronomical Journal</i> , 2019, 158, 213.	4.7	13
26	The SariÅsiÅsek howardite fall in Turkey: Source crater of <sc>HED</sc> meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	1.6	30
27	Hungaria asteroid region telescopic spectral survey (HARTSS) II: Spectral homogeneity among Hungaria family asteroids. <i>Icarus</i> , 2019, 322, 227-250.	2.5	16
28	Spectral Analyses of Asteroids. , 2019, , 393-412.		1
29	Physical Characterization of the 2017 December Outburst of the Centaur 174P/Echeclus. <i>Astronomical Journal</i> , 2019, 158, 255.	4.7	14
30	Do L chondrites come from the Gefion family?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 630-634.	4.4	11
31	Spectral reflectance âœdeconstructionâœ of the Murchison CM2 carbonaceous chondrite and implications for spectroscopic investigations of dark asteroids. <i>Icarus</i> , 2018, 305, 203-224.	2.5	52
32	The triaxial ellipsoid size, density, and rotational pole of asteroid (16) Psyche from Keck and Gemini AO observations 2004âœ2015. <i>Icarus</i> , 2018, 305, 174-185.	2.5	20
33	Ground-based characterization of Hayabusa2 mission target asteroid 162173 Ryugu: constraining mineralogical composition in preparation for spacecraft operations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 614-623.	4.4	21
34	Surface Composition of (99942) Apophis. <i>Astronomical Journal</i> , 2018, 155, 140.	4.7	11
35	Rotationally Resolved Spectroscopic Characterization of Near-Earth Object (3200) Phaethon. <i>Astronomical Journal</i> , 2018, 156, 287.	4.7	23
36	The ungrouped achondrite Northwest Africa (NWA) 7325: Spectral reflectance properties and implications for parent body identification. <i>Icarus</i> , 2018, 311, 384-393.	2.5	3

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37	Basalt or Not? Near-infrared Spectra, Surface Mineralogical Estimates, and Meteorite Analogs for 33 V-type Asteroids. <i>Astronomical Journal</i> , 2018, 156, 11.	4.7	20
38	DETECTION OF WATER AND/OR HYDROXYL ON ASTEROID (16) Psyche. <i>Astronomical Journal</i> , 2017, 153, 31.	4.7	37
39	DETECTION OF ROTATIONAL SPECTRAL VARIATION ON THE M-TYPE ASTEROID (16) PSYCHE. <i>Astronomical Journal</i> , 2017, 153, 29.	4.7	25
40	Geomorphological evidence for ground ice on dwarf planet Ceres. <i>Nature Geoscience</i> , 2017, 10, 338-343.	12.9	83
41	Fitting the curve in Excel®: Systematic curve fitting of laboratory and remotely sensed planetary spectra. <i>Computers and Geosciences</i> , 2017, 100, 103-114.	4.2	12
42	Goldstone radar evidence for short-axis mode non-principal-axis rotation of near-Earth asteroid (214869) 2007 PA8. <i>Icarus</i> , 2017, 286, 314-329.	2.5	6
43	Radar observations and shape model of asteroid 16 Psyche. <i>Icarus</i> , 2017, 281, 388-403.	2.5	87
44	PHYSICAL CHARACTERIZATION OF $\approx 1/2$ m DIAMETER NEAR-EARTH ASTEROID 2015 TC25: A POSSIBLE BOULDER FROM E-TYPE ASTEROID (44) NYSA. <i>Astronomical Journal</i> , 2016, 152, 162.	4.7	13
45	SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. <i>Astrophysical Journal Letters</i> , 2016, 817, L22.	8.3	42
46	Optical space weathering on Vesta: Radiative-transfer models and Dawn observations. <i>Icarus</i> , 2016, 265, 161-174.	2.5	9
47	THE PHYSICAL CHARACTERIZATION OF THE POTENTIALLY HAZARDOUS ASTEROID 2004 BL86: A FRAGMENT OF A DIFFERENTIATED ASTEROID. <i>Astrophysical Journal</i> , 2015, 811, 65.	4.5	6
48	VESTOIDS, PART II: THE BASALTIC NATURE AND HED METEORITE ANALOGS FOR EIGHT V-TYPE ASTEROIDS AND THEIR ASSOCIATIONS WITH (4) VESTA. <i>Astrophysical Journal, Supplement Series</i> , 2015, 221, 19.	7.7	12
49	Exogenic olivine on Vesta from Dawn Framing Camera color data. <i>Icarus</i> , 2015, 258, 467-482.	2.5	28
50	Spectral calibration for deriving surface mineralogy of Asteroid (25143) Itokawa from Hayabusa Near-Infrared Spectrometer (NIRS) data. <i>Icarus</i> , 2015, 262, 124-130.	2.5	1
51	Link between the potentially hazardous Asteroid (86039) 1999 NC43 and the Chelyabinsk meteoroid tenuous. <i>Icarus</i> , 2015, 252, 129-143.	2.5	11
52	Olivine-metal mixtures: Spectral reflectance properties and application to asteroid reflectance spectra. <i>Icarus</i> , 2015, 252, 39-82.	2.5	29
53	Asteroid (354) Eleonora: Plucking an odd duck. <i>Icarus</i> , 2015, 250, 623-638.	2.5	9
54	Exploring exogenic sources for the olivine on Asteroid (4) Vesta. <i>Icarus</i> , 2015, 258, 483-499.	2.5	33

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55	Photometric properties of Ceres from telescopic observations using Dawn Framing Camera color filters. <i>Icarus</i> , 2015, 260, 332-345.	2.5	20
56	COMPOSITION OF POTENTIALLY HAZARDOUS ASTEROID (214869) 2007 PA8: AN H CHONDRITE FROM THE OUTER ASTEROID BELT. <i>Astrophysical Journal</i> , 2015, 808, 93.	4.5	19
57	Geomorphological evidence for transient water flow on Vesta. <i>Earth and Planetary Science Letters</i> , 2015, 411, 151-163.	4.4	42
58	More chips off of Asteroid (4) Vesta: Characterization of eight Vestoids and their HED meteorite analogs. <i>Icarus</i> , 2014, 242, 269-282.	2.5	29
59	Olivine-Enrich exposures at Bellicia and Arruntia craters on (4) Vesta from Dawn <sc>FC</sc>. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1831-1850.	1.6	20
60	Detection and rapid recovery of the Sutter's Mill meteorite fall as a model for future recoveries worldwide. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1989-1996.	1.6	10
61	Surface composition of near-Earth Asteroid (4953) 1990 MU: Possible fragment of (6) Hebe. <i>Icarus</i> , 2014, 233, 61-65.	2.5	3
62	Geologic mapping of ejecta deposits in Oppia Quadrangle, Asteroid (4) Vesta. <i>Icarus</i> , 2014, 244, 104-119.	2.5	13
63	Imprint of the Rheasilvia impact on Vesta – Geologic mapping of quadrangles Gegania and Lucaria. <i>Icarus</i> , 2014, 244, 60-73.	2.5	15
64	Detection of serpentine in exogenic carbonaceous chondrite material on Vesta from Dawn FC data. <i>Icarus</i> , 2014, 239, 222-237.	2.5	34
65	Chelyabinsk meteorite explains unusual spectral properties of Baptistina Asteroid Family. <i>Icarus</i> , 2014, 237, 116-130.	2.5	54
66	Spectral diversity and photometric behavior of main-belt and near-Earth vestoids and (4) Vesta: A study in preparation for the Dawn encounter. <i>Icarus</i> , 2014, 235, 60-74.	2.5	19
67	Olivine-dominated asteroids: Mineralogy and origin. <i>Icarus</i> , 2014, 228, 288-300.	2.5	52
68	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. <i>Icarus</i> , 2014, 244, 74-88.	2.5	36
69	Global photometric properties of Asteroid (4) Vesta observed with Dawn Framing Camera. <i>Icarus</i> , 2013, 226, 1252-1274.	2.5	68
70	Comparing Dawn, Hubble Space Telescope, and ground-based interpretations of (4) Vesta. <i>Icarus</i> , 2013, 226, 1103-1114.	2.5	37
71	Olivine or impact melt: Nature of the ‘Orange’-material on Vesta from Dawn. <i>Icarus</i> , 2013, 226, 1568-1594.	2.5	47
72	Surface composition and taxonomic classification of a group of near-Earth and Mars-crossing asteroids. <i>Icarus</i> , 2013, 225, 131-140.	2.5	42

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73	Lithologic mapping of <sc>HED</sc> terrains on Vesta using Dawn Framing Camera color data. Meteoritics and Planetary Science, 2013, 48, 2199-2210.	1.6	26
74	Compositional variability on the surface of 4 Vesta revealed through <sc>GR</sc>a<sc>ND</sc> measurements of high-energy gamma rays. Meteoritics and Planetary Science, 2013, 48, 2252-2270.	1.6	53
75	Dawn; the Vestaâ€“<sc>HED</sc> connection; and the geologic context for eucrites, diogenites, and howardites. Meteoritics and Planetary Science, 2013, 48, 2090-2104.	1.6	185
76	Neutron absorption constraints on the composition of 4 Vesta. Meteoritics and Planetary Science, 2013, 48, 2211-2236.	1.6	47
77	Composition of the Rheasilvia basin, a window into Vesta's interior. Journal of Geophysical Research E: Planets, 2013, 118, 335-346.	3.6	84
78	Elemental Mapping by Dawn Reveals Exogenic H in Vestaâ€™s Regolith. Science, 2012, 338, 242-246.	12.6	201
79	Near-infrared spectroscopy of 3:1 Kirkwood Gap asteroids: Mineralogical diversity and plausible meteorite parent bodies. Icarus, 2012, 221, 593-602.	2.5	14
80	Delivery of dark material to Vesta via carbonaceous chondritic impacts. Icarus, 2012, 221, 544-559.	2.5	152
81	Composition of near-Earth Asteroid 2008 EV5: Potential target for robotic and human exploration. Icarus, 2012, 221, 678-681.	2.5	16
82	Composition of near-Earth Asteroid (4179) Toutatis. Icarus, 2012, 221, 1177-1179.	2.5	20
83	Color and Albedo Heterogeneity of Vesta from Dawn. Science, 2012, 336, 700-704.	12.6	166
84	Photometric, spectral phase and temperature effects on 4 Vesta and HED meteorites: Implications for the Dawn mission. Icarus, 2012, 217, 153-168.	2.5	76
85	Constraining albedo, diameter and composition of near-Earth asteroids via near-infrared spectroscopy. Icarus, 2012, 219, 382-392.	2.5	21
86	Phase reddening on near-Earth asteroids: Implications for mineralogical analysis, space weathering and taxonomic classification. Icarus, 2012, 220, 36-50.	2.5	150
87	The Main Asteroid menagerie: Results of an NIR spectral survey of 45 main-belt asteroids. Meteoritics and Planetary Science, 2011, 46, 1910-1938.	1.6	42
88	Mineralogical characterization of Baptistina Asteroid Family: Implications for K/T impactor source. Icarus, 2011, 216, 184-197.	2.5	34
89	How to characterize terrains on 4 Vesta using Dawn Framing Camera color bands?. Icarus, 2011, 216, 376-386.	2.5	28
90	First fragment of Asteroid 4 Vestaâ€™s mantle detected. Icarus, 2011, 212, 175-179.	2.5	26

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91	PANIC – A surface science package for the in situ characterization of a near-Earth asteroid. <i>Acta Astronautica</i> , 2011, 68, 1800-1810.	3.2	3
92	The Maria asteroid family: Genetic relationships and a plausible source of mesosiderites near the 3:1 Kirkwood Gap. <i>Icarus</i> , 2011, 213, 524-537.	2.5	20
93	Mineralogical characterization of potential targets for the ASTEX mission scenario. <i>Planetary and Space Science</i> , 2011, 59, 772-778.	1.7	20
94	Compositional heterogeneity of Asteroid 4 Vesta’s southern hemisphere: Implications for the Dawn mission. <i>Icarus</i> , 2010, 210, 693-706.	2.5	48
95	Spectral reflectance properties of ureilites. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1668-1694.	1.6	49
96	Composition of 298 Baptistina: Implications for the K/T impactor link. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1917-1927.	1.6	40
97	Near-infrared spectral observations and interpretations for S-asteroids 138 Tolosa, 306 Unitas, 346 Hermentaria, and 480 Hansa. <i>Icarus</i> , 2006, 181, 94-106.	2.5	22
98	Evidence for Differentiation among Asteroid Families. , 0, , 298-320.		4