

# Noam R Izenberg

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

5,530  
citations

101543

36  
h-index

102487

66  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3824  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Triton Haze Analogs: The Role of Carbon Monoxide in Haze Formation. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .  | 3.6 | 4         |
| 2  | Parker Solar Probe Imaging of the Night Side of Venus. <i>Geophysical Research Letters</i> , 2022, 49, .  | 4.0 | 12        |
| 3  | Hierarchical Bayesian Atmospheric Retrieval Modeling for Population Studies of Exoplanet Atmospheres: A Case Study on the Habitable Zone. <i>Astronomical Journal</i> , 2022, 163, 140.                   | 4.7 | 9         |
| 4  | Science Goals and Mission Concept for a Landed Investigation of Mercury. <i>Planetary Science Journal</i> , 2022, 3, 68.  | 3.6 | 2         |
| 5  | Revealing the Mysteries of Venus: The DAVINCI Mission. <i>Planetary Science Journal</i> , 2022, 3, 117.   | 3.6 | 62        |
| 6  | The Fundamental Connections between the Solar System and Exoplanetary Science. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006643.  | 3.6 | 15        |
| 7  | Hopper Missions to Triton and Pluto using a Vehicle with In-Situ Refueling. , 2021, 53, .   |     | 0         |
| 8  | Looking Back is Looking Forward: The Need for Retrospective Solar System Observations in Advance of Exoplanet Retrievals. , 2021, 53, .   |     | 1         |
| 9  | The Venus Life Equation. , 2021, 53, .  |     | 0         |
| 10 | Venus Surface Platforms. , 2021, 53, .  |     | 1         |
| 11 | Habitability Models for Planetary Sciences. , 2021, 53, .   |     | 3         |
| 12 | In Situ Exploration of Venus's™ Clouds by Dynamic Soaring. , 2021, 53, .  |     | 0         |
| 13 | Future Exploration of Venus: International Coordination and Collaborations. , 2021, 53, .   |     | 0         |
| 14 | Venus Exploration in the New Human Spaceflight Age. <i>Acta Astronautica</i> , 2021, 180, 100-104.  | 3.2 | 4         |
| 15 | Transmission Spectroscopy of the Earth's Sun System to Inform the Search for Extrasolar Life. <i>Planetary Science Journal</i> , 2021, 2, 140.  | 3.6 | 8         |
| 16 | Habitability Models for Astrobiology. <i>Astrobiology</i> , 2021, 21, 1017-1027.  | 3.0 | 13        |
| 17 | Retrieving Exoplanet Atmospheres Using Planetary Infrared Excess: Prospects for the Night Side of WASP-43 b and Other Hot Jupiters. <i>Astrophysical Journal Letters</i> , 2021, 921, L4.                 | 8.3 | 5         |
| 18 | A Geologically Robust Procedure for Observing Rocky Exoplanets to Ensure that Detection of Atmospheric Oxygen Is a Modern Earth-like Biosignature. <i>Astrophysical Journal Letters</i> , 2020, 898, L17. | 8.3 | 5         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Analysis of the MESSENGER MASCS photometric targets part II: Photometric variability between geomorphological units. <i>Icarus</i> , 2019, 319, 140-246.  | 2.5  | 3         |
| 20 | Analysis of the MESSENGER MASCS photometric targets part I: Photometric standardization for examining spectral variability across Mercury's surface. <i>Icarus</i> , 2019, 319, 247-263.                              | 2.5  | 6         |
| 21 | Spectral Analyses of Mercury. , 2019, , 351-367.  |      | 0         |
| 22 | How dielectric breakdown may contribute to the global weathering of regolith on the moon. <i>Icarus</i> , 2019, 319, 785-794.   | 2.5  | 14        |
| 23 | Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. <i>Ecological Applications</i> , 2018, 28, 749-760.  | 3.8  | 116       |
| 24 | Spectral Reflectance Constraints on the Composition and Evolution of Mercury's Surface. , 2018, , 191-216.  |      | 9         |
| 25 | Radiative transfer modeling of MESSENGER VIRS spectra: Detection and mapping of submicroscopic iron and carbon. <i>Icarus</i> , 2017, 293, 206-217.   | 2.5  | 24        |
| 26 | Evidence from MESSENGER for sulfur- and carbon-driven explosive volcanism on Mercury. <i>Geophysical Research Letters</i> , 2016, 43, 3653-3661.  | 4.0  | 57        |
| 27 | A spaceborne visible-NIR hyperspectral imager for coastal phenology. <i>Proceedings of SPIE</i> , 2016, , .   | 0.8  | 1         |
| 28 | Mineralogical indicators of Mercury's hollows composition in MESSENGER color observations. <i>Geophysical Research Letters</i> , 2016, 43, 1450-1456.   | 4.0  | 42        |
| 29 | Shallow crustal composition of Mercury as revealed by spectral properties and geological units of two impact craters. <i>Planetary and Space Science</i> , 2015, 119, 250-263.  | 1.7  | 11        |
| 30 | Orbital multispectral mapping of Mercury with the MESSENGER Mercury Dual Imaging System: Evidence for the origins of plains units and low-reflectance material. <i>Icarus</i> , 2015, 254, 287-305.                   | 2.5  | 95        |
| 31 | Visible to near-infrared hyperspectral measurements of mercury: Challenges for deciphering surface mineralogy. , 2014, , .  |      | 2         |
| 32 | The low-iron, reduced surface of Mercury as seen in spectral reflectance by MESSENGER. <i>Icarus</i> , 2014, 228, 364-374.  | 2.5  | 82        |
| 33 | Mercury's Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. <i>Space Science Reviews</i> , 2014, 181, 121-214.   | 8.1  | 108       |
| 34 | Global inventory and characterization of pyroclastic deposits on Mercury: New insights into pyroclastic activity from MESSENGER orbital data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 635-658. | 3.6  | 79        |
| 35 | Hot Times at Mercury: Mission Operations for the Mercury Atmospheric and Surface Composition Spectrometer on MESSENGER. , 2012, , .   |      | 1         |
| 36 | Hollows on Mercury: MESSENGER Evidence for Geologically Recent Volatile-Related Activity. <i>Science</i> , 2011, 333, 1856-1859.  | 12.6 | 136       |

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|----|--|------|-----------|
| 37 | Prometheus's Challenge: Scheduling MASCS Observations Using SciBox for Orbital Operations at Mercury. , 2010, , .                                    |      | 0         |
| 38 | Whole-disk spectrophotometric properties of Mercury: Synthesis of MESSENGER and ground-based observations. Icarus, 2010, 209, 101-124.               | 2.5  | 35        |
| 39 | A comparison of the ultraviolet to near-infrared spectral properties of Mercury and the Moon as observed by MESSENGER. Icarus, 2010, 209, 179-194.   | 2.5  | 26        |
| 40 | Exposure of spectrally distinct material by impact craters on Mercury: Implications for global stratigraphy. Icarus, 2010, 209, 210-223.             | 2.5  | 82        |
| 41 | Mercury's Complex Exosphere: Results from MESSENGER's Third Flyby. Science, 2010, 329, 672-675.  | 12.6 | 70        |
| 42 | Astrobiological molecularly imprinted polymer sensors. Planetary and Space Science, 2009, 57, 846-853.   | 1.7  | 13        |
| 43 | MESSENGER Observations of Mercury's Exosphere: Detection of Magnesium and Distribution of Constituents. Science, 2009, 324, 610-613.                 | 12.6 | 83        |
| 44 | Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. Nature, 2008, 454, 305-309.                         | 27.8 | 630       |
| 45 | Mercury's Exosphere: Observations During MESSENGER's First Mercury Flyby. Science, 2008, 321, 92-94.   | 12.6 | 77        |
| 46 | Spectroscopic Observations of Mercury's Surface Reflectance During MESSENGER's First Mercury Flyby. Science, 2008, 321, 62-65.                       | 12.6 | 94        |
| 47 | Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) on Mars Reconnaissance Orbiter (MRO). Journal of Geophysical Research, 2007, 112, .     | 3.3  | 796       |
| 48 | Compact reconnaissance imaging spectrometer for Mars (CRISM): characterization results for instrument and focal plane subsystems. , 2004, , .        |      | 2         |
| 49 | The CONTOUR remote imager and spectrometer (CRISP). , 2004, 5163, 84.  |      | 0         |
| 50 | CRISM (Compact Reconnaissance Imaging Spectrometer for Mars) on MRO (Mars Reconnaissance) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50                       |      | 18        |
| 51 | CONTOUR forward imager on the Comet Nucleus Tour mission. , 2004, , .  |      | 1         |
| 52 | Selected configuration tradeoffs of contour optical instruments. Acta Astronautica, 2003, 52, 111-116.   | 3.2  | 2         |
| 53 | The CONTOUR remote imager and spectrograph. Acta Astronautica, 2003, 52, 427-431.  | 3.2  | 0         |
| 54 | Spectral properties and geologic processes on Eros from combined NEAR NIS and MSI data sets. Meteoritics and Planetary Science, 2003, 38, 1053-1077. | 1.6  | 33        |

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|----|--|------|-----------|
| 55 | Ponded deposits on asteroid 433 Eros. <i>Meteoritics and Planetary Science</i> , 2002, 37, 1095-1105.  | 1.6  | 74        |
| 56 | Impact History of Eros: Craters and Boulders. <i>Icarus</i> , 2002, 155, 104-118.  | 2.5  | 119       |
| 57 | Inflight Calibration of the NEAR Multispectral Imager. <i>Icarus</i> , 2002, 155, 229-243.   | 2.5  | 20        |
| 58 | Detection of Temperature-Dependent Spectral Variation on the Asteroid Eros and New Evidence for the Presence of an Olivine-Rich Silicate Assemblage. <i>Icarus</i> , 2002, 155, 181-188. | 2.5  | 20        |
| 59 | NEAR Infrared Spectrometer Photometry of Asteroid 433 Eros. <i>Icarus</i> , 2002, 155, 189-204.  | 2.5  | 113       |
| 60 | Near-IR Reflectance Spectroscopy of 433 Eros from the NIS Instrument on the NEAR Mission. <i>Icarus</i> , 2002, 155, 119-144.  | 2.5  | 70        |
| 61 | Eros: Shape, Topography, and Slope Processes. <i>Icarus</i> , 2002, 155, 18-37.  | 2.5  | 154       |
| 62 | Color Variations on Eros from NEAR Multispectral Imaging. <i>Icarus</i> , 2002, 155, 145-168.  | 2.5  | 78        |
| 63 | Space weathering on Eros: Constraints from albedo and spectral measurements of Psyche crater. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1617-1637.                            | 1.6  | 89        |
| 64 | The composition of 433 Eros: A mineralogical chemical synthesis. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1661-1672.   | 1.6  | 93        |
| 65 | Mineralogical interpretation of reflectance spectra of Eros from NEAR near-infrared spectrometer low phase flyby. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1711-1726.        | 1.6  | 45        |
| 66 | The MESSENGER mission to Mercury: scientific payload. <i>Planetary and Space Science</i> , 2001, 49, 1467-1479.  | 1.7  | 118       |
| 67 | The landing of the NEAR-Shoemaker spacecraft on asteroid 433 Eros. <i>Nature</i> , 2001, 413, 390-393.   | 27.8 | 190       |
| 68 | Imaging of Small-Scale Features on 433 Eros from NEAR: Evidence for a Complex Regolith. <i>Science</i> , 2001, 292, 484-488.   | 12.6 | 147       |
| 69 | In-Flight Calibration of the Near Earth Asteroid Rendezvous Mission's Near Infrared Spectrometer I. Initial Calibrations. <i>Icarus</i> , 2000, 148, 550-571.                            | 2.5  | 11        |
| 70 | NEAR at Eros: Imaging and Spectral Results. <i>Science</i> , 2000, 289, 2088-2097.   | 12.6 | 250       |
| 71 | Inflight Calibration of the NEAR Multispectral Imager. <i>Icarus</i> , 1999, 140, 66-91.   | 2.5  | 35        |
| 72 | NEAR Encounter with Asteroid 253 Mathilde: Overview. <i>Icarus</i> , 1999, 140, 3-16.  | 2.5  | 121       |

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|----|--|------|-----------|
| 73 | Imaging of Asteroid 433&nbsp;Eros During NEAR's Flyby Reconnaissance. <i>Science</i> , 1999, 285, 562-564.   | 12.6 | 61        |
| 74 | NEAR swings by Earth en route to eros. <i>Eos</i> , 1998, 79, 289-289.   | 0.1  | 4         |
| 75 | NEAR's Flyby of 253&nbsp;Mathilde: Images of a C Asteroid. <i>Science</i> , 1997, 278, 2109-2114.  | 12.6 | 185       |
| 76 | Erosional and depositional patterns associated with the 1993 Missouri River floods inferred from SIR-C and TOPSAR radar data. <i>Journal of Geophysical Research</i> , 1996, 101, 23149-23167. | 3.3  | 40        |
| 77 | Basalt Oxidation and the Formation of Hematite on the Surface of Venus. <i>Icarus</i> , 1995, 118, 373-383.  | 2.5  | 33        |
| 78 | Ejecta correlations with spatial crater density and Venus resurfacing history. <i>Geophysical Research Letters</i> , 1995, 22, 1517-1520.  | 4.0  | 37        |
| 79 | Comment on "The global resurfacing of Venus" by R. G. Strom, G. G. Schaber, and D. D. Dawson. <i>Journal of Geophysical Research</i> , 1995, 100, 23355.                                       | 3.3  | 11        |
| 80 | Microwave Signatures and Surface Properties of Ovda Regio and Surroundings, Venus. <i>Icarus</i> , 1994, 112, 171-186.   | 2.5  | 26        |
| 81 | Impact crater degradation on venusian plains. <i>Geophysical Research Letters</i> , 1994, 21, 289-292.   | 4.0  | 76        |
| 82 | Surface modification of Venus as inferred from Magellan observations of plains. <i>Journal of Geophysical Research</i> , 1992, 97, 13303-13317.  | 3.3  | 114       |
| 83 | Impact craters and Venus resurfacing history. <i>Journal of Geophysical Research</i> , 1992, 97, 15923-15948.  | 3.3  | 303       |