# Noah E Petro

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9419925/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 42 papers | 2,525 citations | 257450 24 h-index | 302126 39 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 1902 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Character and Spatial Distribution of OH/H <sub>2</sub> O on the Surface of the Moon Seen by M <sup>3</sup> on Chandrayaan-1. Science, 2009, 326, 568-572. | 12.6 | 622 |
| 2 | Compositional analyses of lunar pyroclastic deposits. Icarus, 2003, 161, 262-280. | 2.5 | 205 |
| 3 | The Moon Mineralogy Mapper (M<sup>3</sup>) imaging spectrometer for lunar science: Instrument description, calibration, on-orbit measurements, science data calibration and on-orbit validation. Journal of Geophysical Research, 2011, 116, . | 3.3 | 173 |
| 4 | Mg-spinel lithology: A new rock type on the lunar farside. Journal of Geophysical Research, 2011, 116, . | 3.3 | 115 |
| 5 | Measuring moonlight: An overview of the spatial properties, lunar coverage, selenolocation, and related Level 1B products of the Moon Mineralogy Mapper. Journal of Geophysical Research, 2011, 116, . | 3.3 | 111 |
| 6 | Origin of the lunar highlands Mg-suite: An integrated petrology, geochemistry, chronology, and remote sensing perspective. American Mineralogist, 2015, 100, 294-325. | 1.9 | 110 |
| 7 | Thermal removal from near-infrared imaging spectroscopy data of the Moon. Journal of Geophysical Research, 2011, 116, . | 3.3 | 100 |
| 8 | Pitted Terrain on Vesta and Implications for the Presence of Volatiles. Science, 2012, 338, 246-249. | 12.6 | 91 |
| 9 | Compositional diversity and geologic insights of the Aristarchus crater from Moon Mineralogy Mapper data. Journal of Geophysical Research, 2011, 116, . | 3.3 | 83 |
| 10 | New insights into lunar petrology: Distribution and composition of prominent low-Ca pyroxene exposures as observed by the Moon Mineralogy Mapper (M<sup>3</sup>). Journal of Geophysical Research, 2011, 116, . | 3.3 | 80 |
| 11 | Remote compositional analysis of lunar olivine-rich lithologies with Moon Mineralogy Mapper (M<sup>3</sup>) spectra. Journal of Geophysical Research, 2011, 116, . | 3.3 | 73 |
| 12 | The lunarâ€wide effects of basin ejecta distribution on the early megaregolith. Meteoritics and Planetary Science, 2008, 43, 1517-1529. | 1.6 | 58 |
| 13 | Does the worsening galactic cosmic radiation environment observed by CRaTER preclude future manned deep space exploration?. Space Weather, 2014, 12, 622-632. | 3.7 | 55 |
| 14 | Surviving the heavy bombardment: Ancient material at the surface of South Pole-Aitken Basin. Journal of Geophysical Research, 2004, 109, . | 3.3 | 54 |
| 15 | Compositional variability of the Marius Hills volcanic complex from the Moon Mineralogy Mapper (M<sup>3</sup>). Journal of Geophysical Research, 2011, 116, . | 3.3 | 52 |
| 16 | Modeling the provenance of the Apollo 16 regolith. Journal of Geophysical Research, 2006, 111, . | 3.3 | 51 |
| 17 | Revisiting the field geology of Taurusâ€“Littrow. Icarus, 2017, 298, 2-33. | 2.5 | 50 |
| 18 | Update on the Worsening Particle Radiation Environment Observed by CRaTER and Implications for Future Human Deepâ€Space Exploration. Space Weather, 2018, 16, 289-303. | 3.7 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Lunar Reconnaissance Orbiter Mission â€“ Six years of science and exploration at the Moon. Icarus, 2016, 273, 2-24. | 2.5 | 38 |
| 20 | A model of the primordial lunar atmosphere. Earth and Planetary Science Letters, 2017, 474, 198-205. | 4.4 | 38 |
| 21 | Development, importance, and effect of a ground truth correction for the Moon Mineralogy Mapper reflectance data set. Journal of Geophysical Research E: Planets, 2013, 118, 369-381. | 3.6 | 36 |
| 22 | Goldschmidt crater and the Moon's north polar region: Results from the Moon Mineralogy Mapper (M<sup>3</sup>). Journal of Geophysical Research, 2011, 116, . | 3.3 | 28 |
| 23 | Evidence for a Stratified Upper Mantle Preserved Within the South Poleâ€Aitken Basin. Journal of Geophysical Research E: Planets, 2021, 126, . | 3.6 | 26 |
| 24 | The search for lunar mantle rocks exposed on the surface of the Moon. Nature Communications, 2021, 12, 4659. | 12.8 | 26 |
| 25 | Volatile interactions with the lunar surface. Chemie Der Erde, 2022, 82, 125858. | 2.0 | 26 |
| 26 | Lunar international science coordination/calibration targets (L-ISCT). Advances in Space Research, 2008, 42, 248-258. | 2.6 | 24 |
| 27 | Origin of the anomalously rocky appearance of Tsiolkovskiy crater. Icarus, 2016, 273, 237-247. | 2.5 | 23 |
| 28 | Signatures of volatiles in the lunar proton albedo. Icarus, 2016, 273, 25-35. | 2.5 | 22 |
| 29 | Was the Sun a Slow Rotator? Sodium and Potassium Constraints from the Lunar Regolith. Astrophysical Journal Letters, 2019, 876, L16. | 8.3 | 22 |
| 30 | Geology of the Moscoviense Basin. Journal of Geophysical Research, 2011, 116, . | 3.3 | 20 |
| 31 | Remotely distinguishing and mapping endogenic water on the Moon. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150391. | 3.4 | 14 |
| 32 | Global variations in regolith properties on asteroid Vesta from Dawn's lowâ€altitude mapping orbit. Meteoritics and Planetary Science, 2016, 51, 2366-2386. | 1.6 | 11 |
| 33 | Using proton radiation from the moon to search for diurnal variation of regolith hydrogenation. Planetary and Space Science, 2018, 162, 113-132. | 1.7 | 9 |
| 34 | Identification of Potential Mantle Rocks Around the Lunar Imbrium Basin. Geophysical Research Letters, 2020, 47, e2020GL090334. | 4.0 | 8 |
| 35 | Geomorphic terrains and evidence for ancient volcanism within northeastern South Pole-Aitken basin. , 2011, , . | | 7 |
| 36 | The Lunar Geophysical Network Landing Sites Science Rationale. Planetary Science Journal, 2022, 3, 40. | 3.6 | 7 |

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|---|---|---|---|
| 37 | More surprises from the Moon. Nature Geoscience, 2011, 4, 499-501. | 12.9 | 2 |
| 38 | Tethered lunar subsatellites for multipoint and low altitude measurements. Acta Astronautica, 2016, 128, 464-472. | 3.2 | 2 |
| 39 | Crater age and hydrogen content in lunar regolith from LEND neutron data. Planetary and Space Science, 2018, 162, 105-112. | 1.7 | 2 |
| 40 | Scaling Relationship Between the Wavelength of Longitudinal Ridges and the Thickness of Long Runout Landslides on the Moon. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006922. | 3.6 | 2 |
| 41 | Advanced regional-scale scenarios for lunar surface exploration. , 2011, , . | | 0 |
| 42 | Plan for a human expedition to Marius Hills and its implications for viable surface exploration architecture. , 2011, , . | | 0 |