

Sue Smrekar

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1808829/sue-smrekar-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

5,106
citations

42
h-index

68
g-index

135
ext. papers

6,260
ext. citations

8.5
avg, IF

5.33
L-index

#	Paper	IF	Citations
120	Investigation of magnetic field signals during vortex-induced pressure drops at InSight. <i>Planetary and Space Science</i> , 2022 , 105487	2	0
119	The Determination of the Rotational State and Interior Structure of Venus with VERITAS. <i>Planetary Science Journal</i> , 2021 , 2, 220	2.9	3
118	Space Weather Observations With InSight. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095432	4.9	0
117	Color Properties at the Mars InSight Landing Site. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001336	3.1	1
116	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021 , 373, 438-443	33.3	54
115	Thermal Conductivity of the Martian Soil at the InSight Landing Site From HP3 Active Heating Experiments. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006861	4.1	9
114	Upper mantle structure of Mars from InSight seismic data. <i>Science</i> , 2021 , 373, 434-438	33.3	45
113	Companion guide to the marsquake catalog from InSight, Sols 0078: Data content and non-seismic events. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 310, 106597	2.3	35
112	Surface weathering on Venus: Constraints from kinetic, spectroscopic, and geochemical data. <i>Icarus</i> , 2021 , 358, 114139	3.8	11
111	The Marsquake catalogue from InSight, sols 0078. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 310, 106595	2.3	45
110	Martian Mantle Heat Flow Estimate From the Lack of Lithospheric Flexure in the South Pole of Mars: Implications for Planetary Evolution and Basal Melting. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091409	4.9	7
109	Analyzing Low Frequency Seismic Events at Cerberus Fossae as Long Period Volcanic Quakes. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006518	4.1	7
108	Seismic detection of the martian core. <i>Science</i> , 2021 , 373, 443-448	33.3	54
107	A Global Survey of Lithospheric Flexure at Steep-Sided Domical Volcanoes on Venus Reveals Intermediate Elastic Thicknesses. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006756	4.1	3
106	Near Surface Properties of Martian Regolith Derived From InSight HP3-RAD Temperature Observations During Phobos Transits. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093542	4.9	6
105	Calibration of the HP3 Radiometer on InSight. <i>Earth and Space Science</i> , 2020 , 7, e2020EA001086	3.1	14
104	Geology of the InSight landing site on Mars. <i>Nature Communications</i> , 2020 , 11, 1014	17.4	59

103	The atmosphere of Mars as observed by InSight. <i>Nature Geoscience</i> , 2020 , 13, 190-198	18.3	93
102	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020 , 13, 213-220	18.3	129
101	Crustal and time-varying magnetic fields at the InSight landing site on Mars. <i>Nature Geoscience</i> , 2020 , 13, 199-204	18.3	42
100	The seismicity of Mars. <i>Nature Geoscience</i> , 2020 , 13, 205-212	18.3	121
99	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020 , 13, 183-189	18.3	155
98	Convection dans les planètes « molles » : du laboratoire à Mars 2020 , 10-15	0.1	1
97	MSS/1: Single-Station and Single-Event Marsquake Inversion. <i>Earth and Space Science</i> , 2020 , 7, e2020EA0011188	9.1	1188
96	The Origin of Observed Magnetic Variability for a Sol on Mars From InSight. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006505	4.1	5
95	Multispectral surface emissivity from VIRTIS on Venus Express. <i>Icarus</i> , 2020 , 335, 113400	3.8	4
94	SEIS: InSight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019 , 215, 12	7.5	143
93	Calibration of the Heat Flow and Physical Properties Package (HP) for the InSight Mars Mission. <i>Earth and Space Science</i> , 2019 , 6, 2556-2574	3.1	7
92	Depletion of Heat Producing Elements in the Martian Mantle. <i>Geophysical Research Letters</i> , 2019 , 46, 12756-12763	4.9	5
91	InSight Auxiliary Payload Sensor Suite (APSS). <i>Space Science Reviews</i> , 2019 , 215, 1	7.5	64
90	Pre-mission InSights on the Interior of Mars. <i>Space Science Reviews</i> , 2019 , 215, 1	7.5	61
89	Signatures of Lithospheric Flexure and Elevated Heat Flow in Stereo Topography at Coronae on Venus. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 369-389	4.1	10
88	2018 ,		2
87	Venus Interior Structure and Dynamics. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	32
86	The Venus Emissivity Mapper (VEM): obtaining global mineralogy of Venus from orbit 2018 ,		4

85	The Thermal State and Interior Structure of Mars. <i>Geophysical Research Letters</i> , 2018 , 45, 12,198-12,209	4.9	41
84	Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	36
83	Atmospheric Science with InSight. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	61
82	The Heat Flow and Physical Properties Package (HP3) for the InSight Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	72
81	Geology and Physical Properties Investigations by the InSight Lander. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	53
80	Selection of the InSight Landing Site. <i>Space Science Reviews</i> , 2017 , 211, 5-95	7.5	104
79	Experimental and observational evidence for plume-induced subduction on Venus. <i>Nature Geoscience</i> , 2017 , 10, 349-355	18.3	83
78	Planned Products of the Mars Structure Service for the InSight Mission to Mars. <i>Space Science Reviews</i> , 2017 , 211, 611-650	7.5	69
77	Search for active lava flows with VIRTIS on Venus Express. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 1021-1045	4.1	7
76	Potential Effects of Surface Temperature Variations and Disturbances and Thermal Convection on the Mars InSight HP3 Heat-Flow Determination. <i>Space Science Reviews</i> , 2017 , 211, 277-313	7.5	8
75	Venus Surface Composition Constrained by Observation and Experiment. <i>Space Science Reviews</i> , 2017 , 212, 1511-1540	7.5	64
74	The InSight Mars Lander and Its Effect on the Subsurface Thermal Environment. <i>Space Science Reviews</i> , 2017 , 211, 259-275	7.5	13
73	The Venus Emissivity Mapper concept 2017 ,		2
72	Interannual perturbations of the Martian surface heat flow by atmospheric dust opacity variations. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 2166-2175	4.1	12
71	The Venus Emissivity Mapper (VEM) concept 2016 ,		3
70	Themis Regio, Venus: Evidence for recent (?) volcanism from VIRTIS data. <i>Icarus</i> , 2016 , 271, 375-386	3.8	16
69	VISAR: A next generation interferometric radar for venus exploration 2015 ,		4
68	Lunar heat flow: Regional prospective of the Apollo landing sites. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 47-63	4.1	27

67	Coronae formation on Venus via extension and lithospheric instability. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 2568-2582	4.1	11
66	Planetary geochemical investigations using Raman and laser-induced breakdown spectroscopy. <i>Applied Spectroscopy</i> , 2014 , 68, 925-36	3.1	43
65	Probing the Interiors of Planets with Geophysical Tools 2014 , 1185-1204		0
64	The influence of temperature-dependent viscosity on lava flow dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 1516-1532	3.8	9
63	Future Mars geophysical observatories for understanding its internal structure, rotation, and evolution. <i>Planetary and Space Science</i> , 2012 , 68, 123-145	2	29
62	The history of Mars' dynamo as revealed by modeling magnetic anomalies near Tyrrenus Mons and Syrtis Major. <i>Journal of Geophysical Research</i> , 2012 , 117,		27
61	Tumulus development on lava flows: insights from observations of active tumuli and analysis of formation models. <i>Bulletin of Volcanology</i> , 2012 , 74, 931-946	2.4	27
60	Constraints on mantle plumes on Venus: Implications for volatile history. <i>Icarus</i> , 2012 , 217, 510-523	3.8	39
59	Shallow Radar (SHARAD), pedestal craters, and the lost Martian layers: Initial assessments. <i>Journal of Geophysical Research</i> , 2011 , 116,		23
58	Massive CO ₂ ice deposits sequestered in the south polar layered deposits of Mars. <i>Science</i> , 2011 , 332, 838-41	33.3	176
57	Mars high resolution gravity fields from MRO, Mars seasonal gravity, and other dynamical parameters. <i>Icarus</i> , 2011 , 211, 401-428	3.8	266
56	Recent hotspot volcanism on Venus from VIRTIS emissivity data. <i>Science</i> , 2010 , 328, 605-8	33.3	181
55	Phoenix and MRO coordinated atmospheric measurements. <i>Journal of Geophysical Research</i> , 2010 , 115,		34
54	Gravity analysis of Parga and Hecate chasmata: Implications for rift and corona formation. <i>Journal of Geophysical Research</i> , 2010 , 115,		6
53	Examination of gully sites on Mars with the shallow radar. <i>Journal of Geophysical Research</i> , 2010 , 115,		24
52	X band model of Venus atmosphere permittivity. <i>Radio Science</i> , 2010 , 45, n/a-n/a	1.4	3
51	Mars north polar deposits: stratigraphy, age, and geodynamical response. <i>Science</i> , 2008 , 320, 1182-5	33.3	232
50	Accumulation and erosion of Mars' south polar layered deposits. <i>Science</i> , 2007 , 317, 1715-8	33.3	66

49	An overview of the Mars Reconnaissance Orbiter (MRO) science mission. <i>Journal of Geophysical Research</i> , 2007 , 112,		135
48	Lithospheric structure in the eastern region of Mars's dichotomy boundary. <i>Planetary and Space Science</i> , 2007 , 55, 280-288	2	17
47	SHARAD sounding radar on the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , 2007 , 112,		200
46	Density of Mars' south polar layered deposits. <i>Science</i> , 2007 , 317, 1718-9	33-3	65
45	Volcanism and volatile recycling on a one-plate planet: Applications to Venus. <i>Journal of Geophysical Research</i> , 2007 , 112,		41
44	Coronae of Parga Chasma, Venus. <i>Journal of Geophysical Research</i> , 2007 , 112,		9
43	Mars Reconnaissance Orbiter Radio Science Gravity Investigation. <i>Journal of Geophysical Research</i> , 2007 , 112,		34
42	New constraints on the thermal and volatile evolution of Mars. <i>Physics of the Earth and Planetary Interiors</i> , 2007 , 164, 161-176	2-3	14
41	Venus: Surface and Interior 2007 , 149-168		2
40	Tectonic and Thermal Evolution of Venus and the Role of Volatiles: Implications for Understanding the Terrestrial Planets. <i>Geophysical Monograph Series</i> , 2007 , 45-71	1.1	15
39	Global mapping of crustal and lithospheric thickness on Venus. <i>Journal of Geophysical Research</i> , 2006 , 111,		55
38	Elastic thickness estimates for the northern lowlands of Mars. <i>Earth and Planetary Science Letters</i> , 2006 , 248, 830-839	5-3	25
37	Statistical distribution of tumuli on pahoehoe flow surfaces: Analysis of examples in Hawaii and Iceland and potential applications to lava flows on Mars. <i>Journal of Geophysical Research</i> , 2005 , 110,		29
36	Relaxation of the Martian dichotomy boundary: Faulting in the Ismenius Region and constraints on the early evolution of Mars. <i>Journal of Geophysical Research</i> , 2005 , 110,		11
35	Large topographic rises, coronae, large flow fields, and large volcanoes on Venus: Evidence for mantle plumes? 2005 ,		16
34	DYNAMO: a Mars upper atmosphere package for investigating solar wind interaction and escape processes, and mapping Martian fields. <i>Advances in Space Research</i> , 2004 , 33, 2228-2235	2-4	3
33	Laufey Regio: A newly discovered topographic rise on Venus. <i>Journal of Geophysical Research</i> , 2004 , 109,		9
32	Admittance survey of type 1 coronae on Venus. <i>Journal of Geophysical Research</i> , 2004 , 109,		24

31	Geologic evolution of the Martian dichotomy in the Ismenius area of Mars and implications for plains magnetization. <i>Journal of Geophysical Research</i> , 2004 , 109,		17
30	Effects of lithospheric properties on the formation of Type 2 coronae on Venus. <i>Journal of Geophysical Research</i> , 2003 , 108,		11
29	A gravity survey of Type 2 coronae on Venus. <i>Journal of Geophysical Research</i> , 2003 , 108,		18
28	Watershed identification of polygonal patterns in noisy SAR images. <i>IEEE Transactions on Image Processing</i> , 2003 , 12, 740-50	8.7	13
27	Characterization and formation of polygonal fractures on Venus. <i>Journal of Geophysical Research</i> , 2002 , 107, 8-1-8-17		17
26	Insights into corona formation through statistical analyses. <i>Journal of Geophysical Research</i> , 2002 , 107, 18-1-18-12		29
25	Scientific objectives of the DYNAMO mission. <i>Advances in Space Research</i> , 2001 , 27, 1851-1860	2.4	4
24	Preliminary analysis of an expanded corona database for Venus. <i>Geophysical Research Letters</i> , 2001 , 28, 4267-4270	4.9	54
23	The state and future of Mars polar science and exploration. <i>Icarus</i> , 2000 , 144, 210-42	3.8	83
22	Penetration tests on the DS-2 Mars microprobes: penetration depth and impact accelerometry. <i>Planetary and Space Science</i> , 2000 , 48, 419-436	2	25
21	Reply to: Self et al. discussion of Pulsed inflation of pahoehoe lava flows: implications for flood basalt emplacement. <i>Earth and Planetary Science Letters</i> , 2000 , 179, 425-428	5.3	8
20	Origin of Corona-Dominated Topographic Rises on Venus. <i>Icarus</i> , 1999 , 139, 100-115	3.8	50
19	Pulsed inflation of pahoehoe lava flows: implications for flood basalt emplacement. <i>Earth and Planetary Science Letters</i> , 1999 , 168, 7-18	5.3	64
18	Deep Space 2: The Mars Microprobe Mission. <i>Journal of Geophysical Research</i> , 1999 , 104, 27013-27030		35
17	Tectonic effects of climate change on Venus. <i>Journal of Geophysical Research</i> , 1999 , 104, 30743-30756		19
16	Corona Formation and Heat Loss on Venus by Coupled Upwelling and Delamination. <i>Science</i> , 1997 , 277, 1289-1294	33.3	98
15	The interaction of mantle plumes with surface thermal and chemical boundary layers: Applications to hotspots on Venus. <i>Journal of Geophysical Research</i> , 1996 , 101, 5397-5410		48
14	Large topographic rises on Venus: Implications for mantle upwelling. <i>Journal of Geophysical Research</i> , 1995 , 100, 23317		65

13	Evidence for Active Hotspots on Venus from Analysis of Magellan Gravity Data. <i>Icarus</i> , 1994 , 112, 2-26	3.8	71
12	Gravitational spreading of high terrain in Ishtar Terra, Venus. <i>Journal of Geophysical Research</i> , 1992 , 97, 16121		37
11	Magellan observations of Alpha Regio: Implications for formation of complex ridged terrains on Venus. <i>Journal of Geophysical Research</i> , 1992 , 97, 13563		55
10	Venus tectonics: An overview of Magellan observations. <i>Journal of Geophysical Research</i> , 1992 , 97, 13199		219
9	Styles of deformation in Ishtar Terra and their implications. <i>Journal of Geophysical Research</i> , 1992 , 97, 16085		34
8	Correction to Venus tectonics: An overview of Magellan observations by Sean C. Solomon et al.. <i>Journal of Geophysical Research</i> , 1992 , 97, 16381		4
7	Venusian highlands: geoid to topography ratios and their implications. <i>Earth and Planetary Science Letters</i> , 1991 , 107, 582-597	5.3	108
6	Gravity-driven deformation of the crust on Venus. <i>Geophysical Research Letters</i> , 1988 , 15, 693-696	4.9	26
5	Small-scale impacts into rock: An evaluation of the effects of target temperature on experimental results. <i>Geophysical Research Letters</i> , 1986 , 13, 745-748	4.9	7
4	Near-infrared spectroscopy of probable impact melt from three large lunar highland craters. <i>Icarus</i> , 1985 , 63, 442-452	3.8	48
3	Venus tectonics 81-120		2
2	VERITAS (Venus Emissivity, Radio Science, InSAR, Topography And Spectroscopy): A Proposed Discovery Mission		5
1	InSight constraints on the global character of the Martian crust. <i>Journal of Geophysical Research E: Planets</i> ,	4.1	10