

Tomas Kohout

List of Publications by Citations

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Version: 2024-04-20

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

57
papers

1,258
citations

19
h-index

34
g-index

73
ext. papers

1,586
ext. citations

3.7
avg, IF

4.14
L-index

#	Paper	IF	Citations
57	In vitro evaluation of biodegradable lignin-based nanoparticles for drug delivery and enhanced antiproliferation effect in cancer cells. <i>Biomaterials</i> , 2017 , 121, 97-108	15.6	217
56	Development of iron oxide/activated carbon nanoparticle composite for the removal of Cr(VI), Cu(II) and Cd(II) ions from aqueous solution. <i>Water Resources and Industry</i> , 2018 , 20, 54-74	4.5	114
55	European component of the AIDA mission to a binary asteroid: Characterization and interpretation of the impact of the DART mission. <i>Advances in Space Research</i> , 2018 , 62, 2261-2272	2.4	69
54	Mineralogy, reflectance spectra, and physical properties of the Chelyabinsk LL5 chondrite Insight into shock-induced changes in asteroid regoliths. <i>Icarus</i> , 2014 , 228, 78-85	3.8	68
53	Magnetic classification of stony meteorites: 2. Non-ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 959-980	2.8	64
52	Compositional distributions and evolutionary processes for the near-Earth object population: Results from the MIT-Hawaii Near-Earth Object Spectroscopic Survey (MITHNEOS). <i>Icarus</i> , 2019 , 324, 41-76	3.8	56
51	An empirical scaling law for acquisition of thermoremanent magnetization. <i>Earth and Planetary Science Letters</i> , 2004 , 226, 521-528	5.3	48
50	Magnetic remanence in the Murchison meteorite. <i>Meteoritics and Planetary Science</i> , 2003 , 38, 399-405	2.8	39
49	pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1904-16	10.1	39
48	Magnetic classification of stony meteorites: 3. Achondrites. <i>Meteoritics and Planetary Science</i> , 2009 , 44, 405-427	2.8	38
47	Orbit and dynamic origin of the recently recovered Annama's H5 chondrite. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 2119-2127	4.3	34
46	TRM in low magnetic fields: a minimum field that can be recorded by large multidomain grains. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 154, 290-298	2.3	32
45	Space weathering simulations through controlled growth of iron nanoparticles on olivine. <i>Icarus</i> , 2014 , 237, 75-83	3.8	30
44	Rationale for BepiColombo Studies of Mercury's Surface and Composition. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	25
43	Potential of cobalt ferrite nanoparticles (CoFe ₂ O ₄) for remediation of hexavalent chromium from synthetic and printing press wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 2922-2932	6.8	24
42	Density, porosity, mineralogy, and internal structure of cosmic dust and alteration of its properties during high-velocity atmospheric entry. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1157-1170	2.8	24
41	Inhomogeneity of asteroid 2008 TC3 (Almahata Sitta meteorites) revealed through magnetic susceptibility measurements. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 1778-1788	2.8	22

40	A comprehensive study of distribution laws for the fragments of Kofu meteorite. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 328-345	2.8	21
39	Nanocomposites of magnetic cobalt nanoparticles and cellulose. <i>European Physical Journal D</i> , 2008 , 49, 333-342	1.3	21
38	Physical properties of meteoritesApplications in space missions to asteroids. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 1009-1020	2.8	17
37	Density, porosity and magnetic susceptibility of the Kofu meteorite shower and homogeneity of its parent meteoroid. <i>Planetary and Space Science</i> , 2014 , 93-94, 96-100	2	16
36	Feasibility of asteroid exploration using CubeSatsASPECT case study. <i>Advances in Space Research</i> , 2018 , 62, 2239-2244	2.4	16
35	Annama H chondriteMineralogy, physical properties, cosmic ray exposure, and parent body history. <i>Meteoritics and Planetary Science</i> , 2017 , 52, 1525-1541	2.8	15
34	The BepiColombo Mercury Imaging X-Ray Spectrometer: Science Goals, Instrument Performance and Operations. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	14
33	Internal structure and physical properties of the Asteroid 2008 TC3 inferred from a study of the Almahata Sitta meteorites. <i>Icarus</i> , 2011 , 212, 697-700	3.8	14
32	Calibrating several key lunar stratigraphic units representing 4 b.y. of lunar history within Schrödinger basin 2011 ,		14
31	Structure of nickel nanoparticles in a microcrystalline cellulose matrix studied using anomalous small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2007 , 40, s489-s494	3.8	13
30	Low-temperature magnetic properties of the Neuschwanstein EL6 meteorite. <i>Earth and Planetary Science Letters</i> , 2007 , 261, 143-151	5.3	12
29	Melting efficiency of troilite-iron assemblages in shock-darkening: Insight from numerical modeling. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 282, 25-38	2.3	12
28	The influence of terrestrial processes on meteorite magnetic records. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 885-897	3	11
27	Low-temperature magnetic transition in troilite: A simple marker for highly stoichiometric FeS systems. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		10
26	Shock-darkening in ordinary chondrites: Determination of the pressure-temperature conditions by shock physics mesoscale modeling. <i>Meteoritics and Planetary Science</i> , 2017 , 52, 2375	2.8	9
25	Low-temperature magnetic properties of iron-bearing sulfides and their contribution to magnetism of cometary bodies. <i>Icarus</i> , 2010 , 208, 955-962	3.8	9
24	Rigorous light-scattering simulations of nanophase iron space-weathering effects on reflectance spectra of olivine grains. <i>Icarus</i> , 2020 , 345, 113727	3.8	8
23	A PCA study to determine how features in meteorite reflectance spectra vary with the samples physical properties. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 1803-1814	2.1	7

22	Shock physics mesoscale modeling of shock stage 5 and 6 in ordinary and enstatite chondrites. <i>Icarus</i> , 2019 , 332, 50-65	3.8	6
21	Experimental constraints on the ordinary chondrite shock darkening caused by asteroid collisions. <i>Astronomy and Astrophysics</i> , 2020 , 639, A146	5.1	6
20	Non-Invasive Geophysical Investigation and Thermodynamic Analysis of a Palsa in Lapland, Northwest Finland. <i>Permafrost and Periglacial Processes</i> , 2014 , 25, 45-52	4.2	5
19	Shock experiments in range of 10–15 GPa with small multidomain magnetite in porous targets. <i>Meteoritics and Planetary Science</i> , 2012 , 47, 1671-1680	2.8	5
18	Analysis of the natural remanent magnetization of rocks by measuring the efficiency ratio through alternating field demagnetization spectra. <i>Studia Geophysica Et Geodaetica</i> , 2008 , 52, 225-235	0.7	5
17	Anomalous magnetic susceptibility values and traces of subsurface microbial activity in carbonate banks on San Salvador Island, Bahamas. <i>Facies</i> , 2004 , 50, 161	1.8	5
16	Reflectance spectra of seven lunar swirls examined by statistical methods: A space weathering study. <i>Icarus</i> , 2019 , 333, 516-527	3.8	4
15	The impact and recovery of asteroid 2018 LA. <i>Meteoritics and Planetary Science</i> , 2021 , 56, 844-893	2.8	4
14	Thermal and porosity properties of meteorites: A compilation of published data and new measurements. <i>Meteoritics and Planetary Science</i> , 2020 , 55, 402-425	2.8	3
13	Simulations of Effects of Nanophase Iron Space Weather Products on Lunar Regolith Reflectance Spectra. <i>Astrophysical Journal</i> , 2018 , 853, 71	4.7	3
12	Targeted Cancer Therapy: pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin (Adv. Healthcare Mater. 15/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 1834-1834	10.1	3
11	Bjurbå L/LL4 ordinary chondrite properties studied by Raman spectroscopy, X-ray diffraction, magnetization measurements and Mössbauer spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 248, 119196	4.4	3
10	Nanospacecraft fleet for multi-asteroid touring with electric solar wind sails 2018 ,		3
9	Montmorillonite-anchored magnetite nanocomposite for recovery of ammonium from stormwater and its reuse in adsorption of Sc ³⁺ . <i>Nanotechnology for Environmental Engineering</i> , 2021 , 6, 1	5.1	3
8	Shock-Wave Experiment with the Chelyabinsk LL5 Meteorite: Experimental Parameters and the Texture of the Shock-Affected Material. <i>Geochemistry International</i> , 2019 , 57, 923-930	0.8	2
7	Low-temperature magnetism of alabandite: Crucial role of surface oxidation. <i>American Mineralogist</i> , 2013 , 98, 1550-1556	2.9	2
6	Mössbauer study and magnetic measurement of troilite extract from natan iron meteorite 2012 ,		2
5	Magnetic properties of high-Ti basaltic rocks from the Krušohory/Erzgebirge MTS. (Bohemia/Saxony), and their relation to mineral chemistry. <i>Studia Geophysica Et Geodaetica</i> , 2010 , 54, 77-94	0.7	2

4	Distinguishing between Shock-darkening and Space-weathering Trends in Ordinary Chondrite Reflectance Spectra. <i>Planetary Science Journal</i> , 2020 , 1, 37	2.9	2
3	A shock recovery experiment and its implications for Mercury's surface: The effect of high pressure on porous olivine powder as a regolith analog. <i>Icarus</i> , 2021 , 357, 114162	3.8	2
2	Temperature Behaviour of Hyperfine Magnetic Fields in a Fe-Co-Si-B-Mo-P Metallic Glass Followed with ^{57}Fe Mössbauer Spectrometry. <i>Acta Physica Polonica A</i> , 2017 , 131, 744-746	0.6	1
1	Comparison of space weathering spectral changes induced by solar wind and micrometeoroid impacts using ion- and femtosecond-laser-irradiated olivine and pyroxene. <i>Astronomy and Astrophysics</i> ,	5.1	1