Tomas Kohout

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/9316085/tomas-kohout-publications-by-year.pdf
Version: 2024-04-20

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.

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	The impact and recovery of asteroid 2018 LA. *Meteoritics and Planetary Science*, **2021**, 56, 844-893	2.8	4
56	A shock recovery experiment and its implications for Mercury's surface: The effect of high pressure on porous olivine powder as a regolith analog. *Icarus*, **2021**, 357, 114162	3.8	2
55	Bjurbole L/LL4 ordinary chondrite properties studied by Raman spectroscopy, X-ray diffraction, magnetization measurements and Mössbauer spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 248, 119196	4.4	3
54	Montmorillonite-anchored magnetite nanocomposite for recovery of ammonium from stormwater and its reuse in adsorption of Sc3+. *Nanotechnology for Environmental Engineering*, **2021**, 6, 1	5.1	3
53	The BepiColombo Mercury Imaging X-Ray Spectrometer: Science Goals, Instrument Performance and Operations. *Space Science Reviews*, **2020**, 216, 1	7.5	14
52	Rigorous light-scattering simulations of nanophase iron space-weathering effects on reflectance spectra of olivine grains. *Icarus*, **2020**, 345, 113727	3.8	8
51	Rationale for BepiColombo Studies of Mercury's Surface and Composition. *Space Science Reviews*, **2020**, 216, 1	7.5	25
50	Thermal and porosity properties of meteorites: A compilation of published data and new measurements. *Meteoritics and Planetary Science*, **2020**, 55, 402-425	2.8	3
49	Distinguishing between Shock-darkening and Space-weathering Trends in Ordinary Chondrite Reflectance Spectra. *Planetary Science Journal*, **2020**, 1, 37	2.9	2
48	Experimental constraints on the ordinary chondrite shock darkening caused by asteroid collisions. *Astronomy and Astrophysics*, **2020**, 639, A146	5.1	6
47	Shock-Wave Experiment with the Chelyabinsk LL5 Meteorite: Experimental Parameters and the Texture of the Shock-Affected Material. *Geochemistry International*, **2019**, 57, 923-930	0.8	2
46	Shock physics mesoscale modeling of shock stage 5 and 6 in ordinary and enstatite chondrites. *Icarus*, **2019**, 332, 50-65	3.8	6
45	Reflectance spectra of seven lunar swirls examined by statistical methods: A space weathering study. *Icarus*, **2019**, 333, 516-527	3.8	4
44	Compositional distributions and evolutionary processes for the near-Earth object population: Results from the MIT-Hawaii Near-Earth Object Spectroscopic Survey (MITHNEOS). *Icarus*, **2019**, 324, 41-76	3.8	56
43	Simulations of Effects of Nanophase Iron Space Weather Products on Lunar Regolith Reflectance Spectra. *Astrophysical Journal*, **2018**, 853, 71	4.7	3
42	European component of the AIDA mission to a binary asteroid: Characterization and interpretation of the impact of the DART mission. *Advances in Space Research*, **2018**, 62, 2261-2272	2.4	69
41	Feasibility of asteroid exploration using CubeSats—ASPECT case study. *Advances in Space Research*, **2018**, 62, 2239-2244	2.4	16

40	Development of iron oxide/activated carbon nanoparticle composite for the removal of Cr(VI), Cu(II) and Cd(II) ions from aqueous solution. *Water Resources and Industry*, **2018**, 20, 54-74	4.5	114
39	Melting efficiency of troilite-iron assemblages in shock-darkening: Insight from numerical modeling. *Physics of the Earth and Planetary Interiors*, **2018**, 282, 25-38	2.3	12
38	Nanospacecraft fleet for multi-asteroid touring with electric solar wind sails **2018**,		3
37	In´vitro evaluation of biodegradable lignin-based nanoparticles for drug delivery and enhanced antiproliferation effect in cancer cells. *Biomaterials*, **2017**, 121, 97-108	15.6	217
36	Annama H chondrite Mineralogy, physical properties, cosmic ray exposure, and parent body history. *Meteoritics and Planetary Science*, **2017**, 52, 1525-1541	2.8	15
35	Shock-darkening in ordinary chondrites: Determination of the pressure-temperature conditions by shock physics mesoscale modeling. *Meteoritics and Planetary Science*, **2017**, 52, 2375	2.8	9
34	Temperature Behaviour of Hyperfine Magnetic Fields in a Fe-Co-Si-B-Mo-P Metallic Glass Followed with ^{57}Fe Mssbauer Spectrometry. *Acta Physica Polonica A*, **2017**, 131, 744-746	0.6	1
33	Potential of cobalt ferrite nanoparticles (CoFe2O4) for remediation of hexavalent chromium from synthetic and printing press wastewater. *Journal of Environmental Chemical Engineering*, **2016**, 4, 2922-2932	6.8	24
32	pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin. *Advanced Healthcare Materials*, **2016**, 5, 1904-16	10.1	39
31	Targeted Cancer Therapy: pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin (Adv. Healthcare Mater. 15/2016). *Advanced Healthcare Materials*, **2016**, 5, 1834-1834	10.1	3
30	Orbit and dynamic origin of the recently recovered Annama's H5 chondrite. *Monthly Notices of the Royal Astronomical Society*, **2015**, 449, 2119-2127	4.3	34
29	Mineralogy, reflectance spectra, and physical properties of the Chelyabinsk LL5 chondrite Insight into shock-induced changes in asteroid regoliths. *Icarus*, **2014**, 228, 78-85	3.8	68
28	Non-Invasive Geophysical Investigation and Thermodynamic Analysis of a Palsa in Lapland, Northwest Finland. *Permafrost and Periglacial Processes*, **2014**, 25, 45-52	4.2	5
27	Density, porosity, mineralogy, and internal structure of cosmic dust and alteration of its properties during high-velocity atmospheric entry. *Meteoritics and Planetary Science*, **2014**, 49, 1157-1170	2.8	24
26	A comprehensive study of distribution laws for the fragments of Kolte meteorite. *Meteoritics and Planetary Science*, **2014**, 49, 328-345	2.8	21
25	Density, porosity and magnetic susceptibility of the Kolte meteorite shower and homogeneity of its parent meteoroid. *Planetary and Space Science*, **2014**, 93-94, 96-100	2	16
24	Space weathering simulations through controlled growth of iron nanoparticles on olivine. *Icarus*, **2014**, 237, 75-83	3.8	30
23	Low-temperature magnetism of alabandite: Crucial role of surface oxidation. *American Mineralogist* , **2013**, 98, 1550-1556	2.9	2

22	Mössbauer study and magnetic measurement of troilite extract from natan iron meteorite **2012**,		2
21	Shock experiments in range of 10–45 GPa with small multidomain magnetite in porous targets. *Meteoritics and Planetary Science*, **2012**, 47, 1671-1680	2.8	5
20	Low-temperature magnetic transition in troilite: A simple marker for highly stoichiometric FeS systems. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		10
19	Internal structure and physical properties of the Asteroid 2008 TC3 inferred from a study of the Almahata Sitta meteorites. *Icarus*, **2011**, 212, 697-700	3.8	14
18	A PCA study to determine how features in meteorite reflectance spectra vary with the samples' physical properties. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2011**, 112, 1803-1814	2.1	7
17	Calibrating several key lunar stratigraphic units representing 4 b.y. of lunar history within Schrödinger basin **2011**,		14
16	Inhomogeneity of asteroid 2008 TC3 (Almahata Sitta meteorites) revealed through magnetic susceptibility measurements. *Meteoritics and Planetary Science*, **2010**, 45, 1778-1788	2.8	22
15	Magnetic properties of high-Ti basaltic rocks from the Krušné hory/Erzgebirge MTS. (Bohemia/Saxony), and their relation to mineral chemistry. *Studia Geophysica Et Geodaetica*, **2010**, 54, 77-94	0.7	2
14	Low-temperature magnetic properties of iron-bearing sulfides and their contribution to magnetism of cometary bodies. *Icarus*, **2010**, 208, 955-962	3.8	9
13	Magnetic classification of stony meteorites: 3. Achondrites. *Meteoritics and Planetary Science*, **2009**, 44, 405-427	2.8	38
12	Physical properties of meteorites—Applications in space missions to asteroids. *Meteoritics and Planetary Science*, **2008**, 43, 1009-1020	2.8	17
11	Magnetic classification of stony meteorites: 2. Non-ordinary chondrites. *Meteoritics and Planetary Science*, **2008**, 43, 959-980	2.8	64
10	Analysis of the natural remanent magnetization of rocks by measuring the efficiency ratio through alternating field demagnetization spectra. *Studia Geophysica Et Geodaetica*, **2008**, 52, 225-235	0.7	5
9	Nanocomposites of magnetic cobalt nanoparticles and cellulose. *European Physical Journal D*, **2008**, 49, 333-342	1.3	21
8	Structure of nickel nanoparticles in a microcrystalline cellulose matrix studied using anomalous small-angle X-ray scattering. *Journal of Applied Crystallography*, **2007**, 40, s489-s494	3.8	13
7	Low-temperature magnetic properties of the Neuschwanstein EL6 meteorite. *Earth and Planetary Science Letters*, **2007**, 261, 143-151	5.3	12
6	TRM in low magnetic fields: a minimum field that can be recorded by large multidomain grains. *Physics of the Earth and Planetary Interiors*, **2006**, 154, 290-298	2.3	32
5	Anomalous magnetic susceptibility values and traces of subsurface microbial activity in carbonate banks on San Salvador Island, Bahamas. *Facies*, **2004**, 50, 161	1.8	5

4	An empirical scaling law for acquisition of thermoremanent magnetization. *Earth and Planetary Science Letters*, **2004**, 226, 521-528	5.3	48
3	The influence of terrestrial processes on meteorite magnetic records. *Physics and Chemistry of the Earth*, **2004**, 29, 885-897	3	11
2	Magnetic remanence in the Murchison meteorite. *Meteoritics and Planetary Science*, **2003**, 38, 399-405	2.8	39
1	Comparison of space weathering spectral changes induced by solar wind and micrometeoroid impacts using ion- and femtosecond-laser-irradiated olivine and pyroxene. *Astronomy and Astrophysics*,	5.1	1