Evgeniya Petrova

List of Publications by Year
in descending order

47	525	623734 14	677142 22
papers	citations	h-index	g-index

50	50	50	229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A study of ordinary chondrites by MÃ¶ssbauer spectroscopy with highâ€velocity resolution. Meteoritics and Planetary Science, 2008, 43, 941-958.	1.6	58
2	Characterization of the matrix and fusion crust of the recent meteorite fall OzerkiÂL6. Meteoritics and Planetary Science, 2020, 55, 231-244.	1.6	37
3	Study of ordinary chondrites by MÃ¶ssbauer spectroscopy with high velocity resolution: identification of M1 and M2 sites in silicate phases. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1185-1191.	1.8	33
4	Comparison of iron-bearing minerals in ordinary chondrites from H, L and LL groups using MÃ¶ssbauer spectroscopy with a high velocity resolution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 172, 65-76.	3.9	27
5	MÃ¶ssbauer parameters of ordinary chondrites influenced by the fit accuracy of the troilite component: an example of Chelyabinsk LL5 meteorite. Hyperfine Interactions, 2016, 237, 1.	0.5	24
6	MÃ¶ssbauer spectroscopy with high velocity resolution in the study of ordinary chondrites. Hyperfine Interactions, 2008, 186, 61-68.	0.5	23
7	A comparative study of troilite in bulk ordinary chondrites Farmington L5, Tsarev L5 and Chelyabinsk LL5 using MÃ¶ssbauer spectroscopy with a high velocity resolution. Journal of Molecular Structure, 2014, 1073, 196-201.	3.6	23
8	Mossbauer spectroscopy with high velocity resolution in the study of iron-bearing minerals in meteorites. European Journal of Mineralogy, 2009, 21, 51-63.	1.3	22
9	Annama H chondriteâ€”Mineralogy, physical properties, cosmic ray exposure, and parent body history. Meteoritics and Planetary Science, 2017, 52, 1525-1541.	1.6	22
10	Variability of Chelyabinsk meteoroid stones studied by MÃ¶ssbauer spectroscopy and X-ray diffraction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 219, 206-224.	3.9	22
11	MÃ¶ssbauer spectroscopy with a high velocity resolution applied for the study of meteoritic iron-bearing minerals. Journal of Molecular Structure, 2013, 1044, 268-278.	3.6	19
12	Determination of quadrupole splitting for 57Fe in M1 and M2 sites of both olivine and pyroxene in ordinary chondrites using MÃ¶ssbauer spectroscopy with high velocity resolution. Hyperfine Interactions, 2007, 177, 65-71.	0.5	18
13	Study of Chelyabinsk LL5 meteorite fragments with different lithology using MÃ¶ssbauer spectroscopy with a high velocity resolution. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 1103-1111.	1.5	18
14	MÃ¶ssbauer spectroscopy of ordinary chondrites: an analysis of the metal phases. Hyperfine Interactions, 2006, 166, 665-670.	0.5	14
15	Hyperfine interactions in metal extracted from ordinary chondrite Tsarev L5: A study using MÃ¶ssbauer spectroscopy with high-velocity resolution. Journal of Physics and Chemistry of Solids, 2008, 69, 1790-1795.	4.0	14
16	Characterization of a Chelyabinsk LL5 meteorite fragment using MÃ¶ssbauer spectroscopy with a high velocity resolution. Hyperfine Interactions, 2014, 226, 559-564.	0.5	14
17	Iron sulfide (troilite) inclusion extracted from Sikhote-Alin iron meteorite: Composition, structure and magnetic properties. Materials Chemistry and Physics, 2016, 174, 100-111.	4.0	14
18	Experimental constraints on the ordinary chondrite shock darkening caused by asteroid collisions. Astronomy and Astrophysics, 2020, 639, A146.	5.1	13

#	Article	IF	Citations
19	57Fe hyperfine interactions in M1 and M2 sites of olivine from Omolon meteorite: study using MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2010, 197, 295-300.	0.5	10
20	Study of metallic Fe-Ni-Co alloy and stony part isolated from Seymchan meteorite using X-ray diffraction, magnetization measurement and MÃ¶ssbauer spectroscopy. Journal of Molecular Structure, 2018, 1174, 112-121.	3.6	9
21	Characterization of Kemer L4 meteorite using Raman spectroscopy, X-ray diffraction, magnetization measurements and MÃ¶ssbauer spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118723.	3.9	9
22	Variations in quadrupole splitting of the 57 Fe in the M1 and M2 sites of meteoritic olivines with different origin. Hyperfine Interactions, 2013, 222, 61-66.	0.5	8
23	The 57Fe hyperfine interactions in the iron bearing phases in different fragments of Chelyabinsk LL5 meteorite: a comparative study using MÃ¶ssbauer spectroscopy with a high velocity resolution. Hyperfine Interactions, 2015, 230, 79-87.	0.5	8
24	MÃ¶ssbauer spectroscopy of H, L and LL ordinary chondrites. Hyperfine Interactions, 2016, 237, 1.	0.5	8
25	Fe2+ partitioning between the M1 and M2 sites in silicate crystals in some stony and stony-iron meteorites studied using X-ray diffraction and MÃ¶ssbauer spectroscopy. Journal of Molecular Structure, 2020, 1216, 128391.	3.6	8
26	Study of metal grains extracted from chondrite Tsarev L5 using MÃ¶ssbauer spectroscopy with high velocity resolution. Hyperfine Interactions, 2007, 177, 81-87.	0.5	7
27	BjurbÃ¶le L/LL4 ordinary chondrite properties studied by Raman spectroscopy, X-ray diffraction, magnetization measurements and MÃ¶ssbauer spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119196.	3.9	7
28	Study of Chelyabinsk LL5 meteorite fragment with a light lithology and its fusion crust using MÃ¶ssbauer spectroscopy with a high velocity resolution. AIP Conference Proceedings, 2014, , .	0.4	6
29	Study of Bursa L6 ordinary chondrite by Xâ€ray diffraction, magnetization measurements, and MÃ¶ssbauer spectroscopy. Meteoritics and Planetary Science, 2020, 55, 2780-2793.	1.6	5
30	Study of Meteorites Using Moì^ssbauer Spectroscopy with High Velocity Resolution. , 2008, , .		4
31	The 57Fe hyperfine interactions in the iron-bearing phases in some LL ordinary chondrites. Hyperfine Interactions, 2016, 237, 1.	0.5	4
32	High pressure impacts on meteorites. Pure and Applied Chemistry, 2019, 91, 1857-1867.	1.9	4
33	Shock-Wave Experiment with the Chelyabinsk LL5 Meteorite: Experimental Parameters and the Texture of the Shock-Affected Material. Geochemistry International, 2019, 57, 923-930.	0.7	3
34	X-ray diffraction and MÃ¶ssbauer spectroscopy of Gandom Beryan 008 ordinary chondrite. Hyperfine Interactions, 2019, 240, 1.	0.5	3
35	Meteorite Seymchan structure. AIP Conference Proceedings, 2016, , .	0.4	1
36	Features of mineral composition of some ordinary chondrites. AIP Conference Proceedings, 2017, , .	0.4	1

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37	Morphology of sulfide minerals in some ordinary chondrites. AIP Conference Proceedings, 2018, , .	0.4	1
38	Spectral characteristics of the meteoritic material after the modeling of thermal and shock metamorphism. AIP Conference Proceedings, 2019, , .	0.4	1
39	Post-impact metamorphism of the Chelyabinsk meteorite in shock experiment. Planetary and Space Science, 2020, 192, 105050.	1.7	1
40	Study of olivines from Omolon and Seymchan meteorites using X-ray diffraction and Moì^ssbauer spectroscopy with a high velocity resolution. , 2012, , .		0
41	Structure and composition of iron sulfides in Dronino meteorite. AIP Conference Proceedings, 2019, , .	0.4	0
42	Modern Urban Sediments: Identification of the Cosmic Spherules. Springer Proceedings in Earth and Environmental Sciences, 2020, , 9-15.	0.4	0
43	Determination of quadrupole splitting for 57Fe in M1 and M2 sites of both olivine and pyroxene in ordinary chondrites using MÃ¶ssbauer spectroscopy with high velocity resolution. , 2008, , 193-199.		0
44	Study of metal grains extracted from chondrite Tsarev L5 using MÃ¶ssbauer spectroscopy with high velocity resolution. , 2008, , 209-215.		0
45	MÃ¶ssbauer spectroscopy with high velocity resolution in the study of ordinary chondrites. , 2008, , 943-950.		0
46	57Fe hyperfine interactions in M1 and M2 sites of olivine from Omolon meteorite: study using MÃ¶ssbauer spectroscopy. , 2010, , 295-300.		0
47	Variations in quadrupole splitting of the 57 Fe in the M1 and M2 sites of meteoritic olivines with different origin. , 2012, , 305-310.		0