Vv Gusarov

List of Publications by Year in descending order

52 papers	769 citations	528359 15 h-index	563864 25 g-index
52 all docs	52 docs citations	52 times ranked	593 citing authors

#	Article	IF	Citations
1	The pH value influence on the waylandite-structured BiAl3(PO4)2(OH)6 compound formation under hydrothermal conditions. Inorganica Chimica Acta, 2024, 561, 121856.	2.5	0
2	Precipitation synthesis of Zn2-xCoxSiO4 blue ceramic pigments: Color performance and application. Ceramics International, 2024, 50, 21386-21395.	4.9	0
3	Magnetic and photocatalytic properties of BiFeO3 nanoparticles formed during the heat treatment of hydroxides coprecipitated in a microreactor with intense swirling flows. Nanosystems: Physics, Chemistry, Mathematics, 2024, 15, 369-379.	0.4	0
4	Pyrochlore phase in the Bi2O3-Fe2O3-WO3-(H2O) system: its formation by hydrothermal synthesis in the low-temperature region of the phase diagram. Nanosystems: Physics, Chemistry, Mathematics, 2023, 14, 242-253.	0.4	0
5	Influence of the composition of the BiPO4-BiVO4 system on the phase formation, morphology, and properties of nanocrystalline composites obtained under hydrothermal conditions. Nanosystems: Physics, Chemistry, Mathematics, 2023, 14, 363-371.	0.4	1
6	Synthesis under hydrothermal conditions and structural transformations of nanocrystals in the LaPO4-YPO4-(H2O) system. Nanosystems: Physics, Chemistry, Mathematics, 2023, 14, 660-671.	0.4	1
7	Structure refinement, microstrains and crystallite sizes of Mg-Ni-phyllosilicate nanoscroll powders. Journal of Applied Crystallography, 2022, 55, 484-502.	4.9	6
8	Crystal structure and optical properties of the Biâ€“Feâ€“Wâ€“O pyrochlore phase synthesized via a hydrothermal method. Journal of Alloys and Compounds, 2021, 889, 161598.	5.7	11
9	Heat-stimulated crystallization and phase transformation of titania nanoparticles. Journal of Crystal Growth, 2021, 576, 126371.	1.6	8
10	Hydrothermal synthesis, phase formation and crystal chemistry of the pyrochlore/Bi2WO6 and pyrochlore/Î±â€“Fe2O3 composites in the Bi2O3â€“Fe2O3â€“WO3 system. Journal of Solid State Chemistry, 2020, 282, 121064.	3.0	8
11	Experimental study of oxidic-metallic melt oxidation. Nuclear Engineering and Design, 2020, 363, 110618.	1.7	3
12	Subsolidus phase equilibria in the GdFeO3-SrFeO3- system in air. Ceramics International, 2020, 46, 24526-24533.	4.9	9
13	Formation of nanocrystalline BiFeO3 during heat treatment of hydroxides co-precipitated in an impinging-jets microreactor. Chemical Engineering and Processing: Process Intensification, 2019, 143, 107598.	3.7	35
14	Cation Redistribution along the Spiral of Niâ€Doped Phyllosilicate Nanoscrolls: Energy Modelling and STEM/EDS Study. ChemPhysChem, 2019, 20, 719-726.	2.3	12
15	Very wide-bandgap nanostructured metal oxide materials for perovskite solar cells. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 70-75.	0.4	5
16	Formation of rhabdophane-structured lanthanum orthophosphate nanoparticles in an impinging-jets microreactor and rheological properties of sols based on them. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 206-214.	0.4	14
17	The minimum size of oxide nanocrystals: phenomenological thermodynamic vs crystal-chemical approaches. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 428-437.	0.4	24
18	Experimental study of transient phenomena in the three-liquid oxidic-metallic corium pool. Nuclear Engineering and Design, 2018, 332, 31-37.	1.7	21

#	Article	IF	Citations
19	The thermal behavior of mixed-layer Aurivillius phase Bi13Fe5Ti6O39. Journal of Thermal Analysis and Calorimetry, 2018, 131, 473-478.	3.6	11
20	Effect of temperature gradient on chemical element partitioning in corium pool during in-vessel retention. Nuclear Engineering and Design, 2018, 327, 82-91.	1.7	2
21	Effect of spatial constraints on the phase evolution of YFeO3-based nanopowders under heat treatment of glycine-nitrate combustion products. Ceramics International, 2018, 44, 20906-20912.	4.9	28
22	Charge pumping in nanotube filled with electrolyte. Chinese Journal of Physics, 2018, 56, 2531-2537.	4.0	3
23	Experimental studies of impact on a critical heat flux the parameters of nanoparticle layer formed at nanofluid boiling. Nanosystems: Physics, Chemistry, Mathematics, 2018, 9, 279-289.	0.4	2
24	Formation mechanism of core-shell nanocrystals obtained via dehydration of coprecipitated hydroxides at hydrothermal conditions. Nanosystems: Physics, Chemistry, Mathematics, 2018, , 568-572.	0.4	6
25	Hydrothermal synthesis of monostructured LaPO4: morphology and structure. Chemical Bulletin of Kazakh National University, 2018, , 12-19.	0.2	0
26	Comparative Energy Modeling of Multiwalled Mg₃Si₂O₅(OH)₄ and Ni₃Si₂O₅(OH)₄ Nanoscroll Growth. Journal of Physical Chemistry C, 2017, 121, 12495-12502.	3.3	21
27	Redistribution of Mg and Ni cations in crystal lattice of conical nanotube with chrysotile structure. Nanosystems: Physics, Chemistry, Mathematics, 2017, , 620-627.	0.4	12
28	Oxidation effects during corium melt in-vessel retention. Nuclear Engineering and Design, 2016, 305, 389-399.	1.7	10
29	Magnetic properties of Aurivillius phases Bim+1Femâ^'3Ti3O3m+3 with m=5.5, 7, 8. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 214, 51-56.	3.6	19
30	Magnetic properties of synthetic Ni ₃ Si ₂ O ₅ (OH) ₄ nanotubes. Europhysics Letters, 2016, 113, 47006.	2.0	13
31	Morphology vs. chemical composition of single Ni-doped hydrosilicate nanoscroll. Materials Letters, 2016, 171, 68-71.	2.7	13
32	New sacrificial material for ex-vessel core catcher. Journal of Nuclear Materials, 2015, 467, 778-784.	2.8	12
33	Crystallization behavior and morphological features of YFeO3 nanocrystallites obtained by glycine-nitrate combustion. Nanosystems: Physics, Chemistry, Mathematics, 2015, , 866-874.	0.4	11
34	Processing stages of Gd2Sr(Al1â^'x Fe x)2O7 series. Rare Metals, 2014, 33, 47-53.	7.2	5
35	Oxidation effect on steel corrosion and thermal loads during corium melt in-vessel retention. Nuclear Engineering and Design, 2014, 278, 310-316.	1.7	8
36	Soliton-induced flow in carbon nanotubes. Europhysics Letters, 2013, 101, 66001.	2.0	2

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37	A Model of Irregular Impurity at the Surface of Nanoparticle and Catalytic Activity. Communications in Theoretical Physics, 2012, 58, 55-58.	2.4	1
38	Structural changes in the homologous series of the Aurivillius phases Bi+1Feâ”3Ti3O3+3. Journal of Alloys and Compounds, 2012, 528, 103-108.	5.7	55
39	Peculiarities of layered perovskite-related GdSrFeO4 compound solid state synthesis. Journal of Alloys and Compounds, 2011, 509, 1523-1528.	5.7	12
40	Phase equilibria in the FeO1+xâ€“UO2â€“ZrO2 system in the FeO1+x-enriched domain. Journal of Nuclear Materials, 2010, 400, 119-126.	2.8	15
41	Influence of corium oxidation on fission product release from molten pool. Nuclear Engineering and Design, 2010, 240, 1229-1241.	1.7	9
42	VVER vessel steel corrosion at interaction with molten corium in oxidizing atmosphere. Nuclear Engineering and Design, 2009, 239, 1103-1112.	1.7	15
43	Eutectic crystallization in the FeO1.5â€“UO2+xâ€“ZrO2 system. Journal of Nuclear Materials, 2009, 389, 52-56.	2.8	17
44	Corium phase equilibria based on MASCA, METCOR and CORPHAD results. Nuclear Engineering and Design, 2008, 238, 2761-2771.	1.7	40
45	New polyimide nanocomposites based on silicate type nanotubes: Dispersion, processing and properties. Polymer, 2007, 48, 1306-1315.	3.9	68
46	Phase diagram of the UO2â€“FeO1+x system. Journal of Nuclear Materials, 2007, 362, 46-52.	2.8	29
47	Corrosion of vessel steel during its interaction with molten corium. Nuclear Engineering and Design, 2006, 236, 1362-1370.	1.7	12
48	Corrosion of vessel steel during its interaction with molten corium. Nuclear Engineering and Design, 2006, 236, 1810-1829.	1.7	18
49	Phase diagram of the ZrO2â€“FeO system. Journal of Nuclear Materials, 2006, 348, 114-121.	2.8	47
50	The Lu2O3â€“Al2O3 system: Relationships for equilibrium-phase and supercooled states. Journal of Crystal Growth, 2006, 293, 74-77.	1.6	32
51	Experimental studies of oxidic molten coriumâ€“vessel steel interaction. Nuclear Engineering and Design, 2001, 210, 193-224.	1.7	18
52	The thermal effect of melting in polycrystalline systems. Thermochimica Acta, 1995, 256, 467-472.	2.7	45