

Vv Gusarov

List of Publications by Year in descending order

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papers

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docs citations

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times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	New polyimide nanocomposites based on silicate type nanotubes: Dispersion, processing and properties. <i>Polymer</i> , 2007, 48, 1306-1315.	3.9	68
2	Structural changes in the homologous series of the Aurivillius phases $\text{Bi}_{1-x}\text{Fe}_x\text{Ti}_3\text{O}_{10}$. <i>Journal of Alloys and Compounds</i> , 2012, 528, 103-108.	5.7	55
3	Phase diagram of the $\text{ZrO}_2\text{-FeO}$ system. <i>Journal of Nuclear Materials</i> , 2006, 348, 114-121.	2.8	47
4	The thermal effect of melting in polycrystalline systems. <i>Thermochimica Acta</i> , 1995, 256, 467-472.	2.7	45
5	Corium phase equilibria based on MASCA, METCOR and CORPHAD results. <i>Nuclear Engineering and Design</i> , 2008, 238, 2761-2771.	1.7	40
6	Formation of nanocrystalline BiFeO_3 during heat treatment of hydroxides co-precipitated in an impinging-jets microreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 143, 107598.	3.7	35
7	The $\text{Lu}_2\text{O}_3\text{-Al}_2\text{O}_3$ system: Relationships for equilibrium-phase and supercooled states. <i>Journal of Crystal Growth</i> , 2006, 293, 74-77.	1.6	32
8	Phase diagram of the $\text{UO}_2\text{-FeO}_{1+x}$ system. <i>Journal of Nuclear Materials</i> , 2007, 362, 46-52.	2.8	29
9	Effect of spatial constraints on the phase evolution of YFeO_3 -based nanopowders under heat treatment of glycine-nitrate combustion products. <i>Ceramics International</i> , 2018, 44, 20906-20912.	4.9	28
10	The minimum size of oxide nanocrystals: phenomenological thermodynamic vs crystal-chemical approaches. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2019, 10, 428-437.	0.4	24
11	Comparative Energy Modeling of Multiwalled $\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$ and $\text{Ni}_3\text{Si}_2\text{O}_5(\text{OH})_4$ Nanoscroll Growth. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12495-12502.	3.3	21
12	Experimental study of transient phenomena in the three-liquid oxidic-metallic corium pool. <i>Nuclear Engineering and Design</i> , 2018, 332, 31-37.	1.7	21
13	Magnetic properties of Aurivillius phases $\text{Bi}_{m+1}\text{Fe}_m\text{Ti}_3\text{O}_{3m+3}$ with $m=5, 7, 8$. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 214, 51-56.	3.6	19
14	Experimental studies of oxidic molten corium-vessel steel interaction. <i>Nuclear Engineering and Design</i> , 2001, 210, 193-224.	1.7	18
15	Corrosion of vessel steel during its interaction with molten corium. <i>Nuclear Engineering and Design</i> , 2006, 236, 1810-1829.	1.7	18
16	Eutectic crystallization in the $\text{FeO}_{1.5}\text{-UO}_2\text{-ZrO}_2$ system. <i>Journal of Nuclear Materials</i> , 2009, 389, 52-56.	2.8	17
17	VVER vessel steel corrosion at interaction with molten corium in oxidizing atmosphere. <i>Nuclear Engineering and Design</i> , 2009, 239, 1103-1112.	1.7	15
18	Phase equilibria in the $\text{FeO}_{1+x}\text{-UO}_2\text{-ZrO}_2$ system in the FeO_{1+x} -enriched domain. <i>Journal of Nuclear Materials</i> , 2010, 400, 119-126.	2.8	15

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19	Formation of rhabdophane-structured lanthanum orthophosphate nanoparticles in an impinging-jets microreactor and rheological properties of sols based on them. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2019, 10, 206-214.	0.4	14
20	Magnetic properties of synthetic Ni ₃ Si ₂ O ₅ (OH) ₄ nanotubes. <i>Europhysics Letters</i> , 2016, 113, 47006.	2.0	13
21	Morphology vs. chemical composition of single Ni-doped hydrosilicate nanoscroll. <i>Materials Letters</i> , 2016, 171, 68-71.	2.7	13
22	Corrosion of vessel steel during its interaction with molten corium. <i>Nuclear Engineering and Design</i> , 2006, 236, 1362-1370.	1.7	12
23	Peculiarities of layered perovskite-related GdSrFeO ₄ compound solid state synthesis. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1523-1528.	5.7	12
24	New sacrificial material for ex-vessel core catcher. <i>Journal of Nuclear Materials</i> , 2015, 467, 778-784.	2.8	12
25	Cation Redistribution along the Spiral of Ni-Doped Phyllosilicate Nanoscrolls: Energy Modelling and STEM/EDS Study. <i>ChemPhysChem</i> , 2019, 20, 719-726.	2.3	12
26	Redistribution of Mg and Ni cations in crystal lattice of conical nanotube with chrysotile structure. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2017, , 620-627.	0.4	12
27	The thermal behavior of mixed-layer Aurivillius phase Bi ₁₃ Fe ₅ Ti ₆ O ₃₉ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 473-478.	3.6	11
28	Crystal structure and optical properties of the Bi-Fe-W-O pyrochlore phase synthesized via a hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161598.	5.7	11
29	Crystallization behavior and morphological features of YFeO ₃ nanocrystallites obtained by glycine-nitrate combustion. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2015, , 866-874.	0.4	11
30	Oxidation effects during corium melt in-vessel retention. <i>Nuclear Engineering and Design</i> , 2016, 305, 389-399.	1.7	10
31	Influence of corium oxidation on fission product release from molten pool. <i>Nuclear Engineering and Design</i> , 2010, 240, 1229-1241.	1.7	9
32	Subsolidus phase equilibria in the GdFeO ₃ -SrFeO ₃ - system in air. <i>Ceramics International</i> , 2020, 46, 24526-24533.	4.9	9
33	Oxidation effect on steel corrosion and thermal loads during corium melt in-vessel retention. <i>Nuclear Engineering and Design</i> , 2014, 278, 310-316.	1.7	8
34	Hydrothermal synthesis, phase formation and crystal chemistry of the pyrochlore/Bi ₂ WO ₆ and pyrochlore/Fe ₂ O ₃ composites in the Bi ₂ O ₃ -Fe ₂ O ₃ -WO ₃ system. <i>Journal of Solid State Chemistry</i> , 2020, 282, 121064.	3.0	8
35	Heat-stimulated crystallization and phase transformation of titania nanoparticles. <i>Journal of Crystal Growth</i> , 2021, 576, 126371.	1.6	8
36	Formation mechanism of core-shell nanocrystals obtained via dehydration of coprecipitated hydroxides at hydrothermal conditions. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2018, , 568-572.	0.4	6

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37	Structure refinement, microstrains and crystallite sizes of Mg-Ni-phyllsilicate nanoscroll powders. Journal of Applied Crystallography, 2022, 55, 484-502.	4.9	6
38	Processing stages of Gd ₂ Sr(Al _{1-x} Fe _x) ₂ O ₇ series. Rare Metals, 2014, 33, 47-53.	7.2	5
39	Very wide-bandgap nanostructured metal oxide materials for perovskite solar cells. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 70-75.	0.4	5
40	Charge pumping in nanotube filled with electrolyte. Chinese Journal of Physics, 2018, 56, 2531-2537.	4.0	3
41	Experimental study of oxidic-metallic melt oxidation. Nuclear Engineering and Design, 2020, 363, 110618.	1.7	3
42	Soliton-induced flow in carbon nanotubes. Europhysics Letters, 2013, 101, 66001.	2.0	2
43	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
44	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
45	A Model of Irregular Impurity at the Surface of Nanoparticle and Catalytic Activity. Communications in Theoretical Physics, 2012, 58, 55-58.	2.4	1
46	Influence of the composition of the BiPO ₄ -BiVO ₄ 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
47	Synthesis under hydrothermal conditions and structural transformations of nanocrystals in the LaPO ₄ -YPO ₄ -(H ₂ O) system. Nanosystems: Physics, Chemistry, Mathematics, 2023, 14, 660-671.	0.4	1
48	Hydrothermal synthesis of monostructured LaPO ₄ : morphology and structure. Chemical Bulletin of Kazakh National University, 2018, , 12-19.	0.2	0
49	Pyrochlore phase in the Bi ₂ O ₃ -Fe ₂ O ₃ -WO ₃ -(H ₂ O) 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
50	The pH value influence on the waylandite-structured BiAl ₃ (PO ₄) ₂ (OH) ₆ compound formation under hydrothermal conditions. Inorganica Chimica Acta, 2024, 561, 121856.	2.5	0
51	Precipitation synthesis of Zn _{2-x} CoxSiO ₄ blue ceramic pigments: Color performance and application. Ceramics International, 2024, 50, 21386-21395.	4.9	0
52	Magnetic and photocatalytic properties of BiFeO ₃ 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