

Dorothe Vinga Szabó³

List of Publications by Year in descending order

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79
papers

2,771
citations

186209

28
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182361

51
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82
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82
docs citations

82
times ranked

3746
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer-Nanoparticle Composites: From Synthesis to Modern Applications. <i>Materials</i> , 2010, 3, 3468-3517.	1.3	669
2	Synthesis and Magnetic Properties of Nanostructured Maghemite. <i>Journal of Materials Research</i> , 1997, 12, 2175-2182.	1.2	122
3	Polymer-derived Si-based bulk ceramics, part I: Preparation, processing and properties. <i>Journal of the European Ceramic Society</i> , 1995, 15, 703-715.	2.8	111
4	Effect of dipolar and exchange interactions on magnetic blocking of maghemite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1998-2004.	1.0	92
5	Magnetic properties of nanocrystalline Cr ₂ O ₃ synthesized in a microwave plasma. <i>Materials Letters</i> , 1996, 29, 271-279.	1.3	86
6	Synthesis of nanocrystalline MoS ₂ and WS ₂ in a microwave plasma. <i>Materials Letters</i> , 1998, 35, 236-244.	1.3	85
7	Oxide/polymer nanocomposites as new luminescent materials. <i>Journal of Nanoparticle Research</i> , 2004, 6, 181-191.	0.8	76
8	Synthesis and properties of ceramic nanoparticles and nanocomposites. <i>Journal of the European Ceramic Society</i> , 1997, 17, 1317-1324.	2.8	75
9	Nonocomposites from Coated Nanoparticles. <i>Advanced Materials</i> , 1999, 11, 1313-1316.	11.1	72
10	Coated Nanoparticles: A New Way to Improved Nanocomposites. <i>Journal of Nanoparticle Research</i> , 1999, 1, 235-242.	0.8	65
11	Crystallographic ordering in a series of Al-containing refractory high entropy alloys Ta-Nb-Mo-Cr-Ti-Al. <i>Acta Materialia</i> , 2019, 176, 123-133.	3.8	63
12	Nanocoated particles: A special type of ceramic powder. <i>Scripta Materialia</i> , 1994, 4, 927-938.	0.5	61
13	Peculiarities of deformation of CoCrFeMnNi at cryogenic temperatures. <i>Journal of Materials Research</i> , 2018, 33, 3287-3300.	1.2	56
14	The Microwave plasma process – a versatile process to synthesise nanoparticulate materials. <i>Journal of Nanoparticle Research</i> , 2006, 8, 417-428.	0.8	55
15	Microwave Plasma Synthesis of Materials – From Physics and Chemistry to Nanoparticles: A Materials Scientist's Viewpoint. <i>Inorganics</i> , 2014, 2, 468-507.	1.2	53
16	Synthesis and properties of nanocrystalline superparamagnetic γ -Fe ₂ O ₃ . <i>Scripta Materialia</i> , 1995, 6, 941-944.	0.5	49
17	Synthesis and Properties of Nanocomposites. <i>Advanced Engineering Materials</i> , 2004, 6, 117-127.	1.6	49
18	Spin-glass freezing of maghemite nanoparticles prepared by microwave plasma synthesis. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	47

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19	Nanoparticles from compounds with layered structures. <i>Acta Materialia</i> , 2000, 48, 953-967.	3.8	45
20	Combinatorial exploration of the High Entropy Alloy System Co-Cr-Fe-Mn-Ni. <i>Surface and Coatings Technology</i> , 2017, 325, 174-180.	2.2	43
21	Phases and phase transformations in nanocrystalline ZrO ₂ . <i>Journal of Nanoparticle Research</i> , 2006, 8, 1003-1016.	0.8	38
22	Local Structure and Magnetism of Fe ₂ O ₃ Maghemite Nanocrystals: The Role of Crystal Dimension. <i>Nanomaterials</i> , 2020, 10, 867.	1.9	37
23	Hydroboration of polymethylvinylsilane – a novel route to silicon boron carbide ceramics. <i>Journal of Materials Science</i> , 1993, 28, 3931-3938.	1.7	35
24	Structure, phase transformations, and defects of HfO ₂ and ZrO ₂ nanoparticles studied by Ta ¹⁸¹ and Cd ¹¹¹ perturbed angular correlations, H ¹ magic-angle spinning NMR, XPS, and x-ray and electron diffraction. <i>Physical Review B</i> , 2008, 77, .	1.1	35
25	Polymer-derived Si-based bulk ceramics, part II: Microstructural characterisation by electron spectroscopic imaging. <i>Journal of the European Ceramic Society</i> , 1995, 15, 717-727.	2.8	34
26	Investigation of the degradation of SnO ₂ electrodes for use in Li-ion cells. <i>Journal of Power Sources</i> , 2013, 233, 139-147.	4.0	34
27	Comprehensive analysis of TEM methods for LiFePO ₄ /FePO ₄ phase mapping: spectroscopic techniques (EFTEM, STEM-EELS) and STEM diffraction techniques (ACOM-TEM). <i>Ultramicroscopy</i> , 2016, 170, 10-18.	0.8	30
28	High-Resolution Surface Analysis on Aluminum Oxide-Coated Li _{1.2} Mn _{0.55} Ni _{0.15} Co _{0.10} O ₂ with Improved Capacity Retention. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43131-43143.	4.0	30
29	Surface Analytical Study Regarding the Solid Electrolyte Interphase Composition of Nanoparticulate SnO ₂ Anodes for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24706-24714.	1.5	29
30	Microstructure Evolution in a New Refractory High-Entropy Alloy W-Mo-Cr-Ti-Al. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 961-970.	1.1	28
31	The influence of Y and Nb addition on the corrosion resistance of Fe-Cr-Al-Ni model alloys exposed to oxygen-containing molten Pb. <i>Corrosion Science</i> , 2021, 179, 109152.	3.0	27
32	Nano- and Microstructured Copper/Copper Oxide Composites on Laser-Induced Carbon for Enzyme-Free Glucose Sensors. <i>ACS Applied Nano Materials</i> , 2021, 4, 13747-13760.	2.4	27
33	Synthesis and properties of ceramic-polymer composites. <i>Scripta Materialia</i> , 1999, 12, 433-438.	0.5	25
34	Hafnia nanoparticles – a model system for graphene growth on a dielectric. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 341-343.	1.2	25
35	Ceramic nanoparticles coated with polymers based on acrylic derivatives. <i>Macromolecular Symposia</i> , 2002, 181, 107-112.	0.4	19
36	Magnetization of Fe-oxide based nanocomposite tuned by surface charging. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 150-152.	1.2	19

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37	Compatibility and microstructure evolution of Al-Cr-Fe-Ni high entropy model alloys exposed to oxygen-containing molten lead. <i>Corrosion Science</i> , 2021, 189, 109593.	3.0	18
38	Structural and chemical characterization of SnO ₂ -based nanoparticles as electrode material in Li-ion batteries. <i>Journal of Materials Science</i> , 2012, 47, 4383-4391.	1.7	16
39	Synthesis and characterization of thorium, uranium and cerium oxide nanoparticles. <i>Radiochimica Acta</i> , 2013, 101, 233-240.	0.5	16
40	SQUID magnetometry combined with in situ cyclic voltammetry: A case study of tunable magnetism of Fe_2O_3 nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 329, 43-48.	1.0	16
41	Characterization of core/shell nanoparticle thin films for gas analytical applications. <i>Surface and Interface Analysis</i> , 2010, 42, 1131-1134.	0.8	14
42	Zirconia and titania nanoparticles studied by electric hyperfine interactions, XRD and TEM. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 590-593.	2.8	13
43	Structure and grain growth of TiO ₂ nanoparticles investigated by electron and x-ray diffractions and Ta181 perturbed angular correlations. <i>Journal of Applied Physics</i> , 2006, 100, 024305.	1.1	12
44	Reduced surface effects in weakly interacting ZrO ₂ coated MnFe ₂ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 469, 580-586.	1.0	12
45	Morphological characterisation of nanocrystals with layered structures. <i>Scripta Materialia</i> , 1999, 12, 597-600.	0.5	11
46	Microwave plasma synthesis of nano-crystalline YSZ. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 107-109.	1.2	11
47	Effects of heat treatments on the microstructure of a yttria/alumina-doped hot-pressed Si ₃ N ₄ ceramic. <i>Journal of Materials Science</i> , 1993, 28, 2089-2096.	1.7	10
48	Nanogranular SnO ₂ Layers for Gas Sensing Applications by In Situ Deposition of Nanoparticles Produced by the Karlsruhe Microwave Plasma Process. <i>Plasma Processes and Polymers</i> , 2007, 4, S865-S870.	1.6	10
49	Development of nanocomposites for anode materials in Li-ion batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 471-473.	0.8	10
50	Electrochemical performance of tin-based nano-composite electrodes using a vinylene carbonate-containing electrolyte for Li-ion cells. <i>Journal of Power Sources</i> , 2014, 263, 145-153.	4.0	10
51	Role of surface spins on magnetization of Cr ₂ O ₃ coated Fe_2O_3 nanoparticles. <i>Solid State Sciences</i> , 2018, 83, 43-48.	1.5	10
52	Complex high frequency properties of ceramic-polymer nanocomposites: comparison of fluoro-polymers and acrylic-based compounds. <i>Macromolecular Symposia</i> , 2002, 181, 393-398.	0.4	9
53	Nanoparticles in polymer-matrix composites. <i>Microsystem Technologies</i> , 2011, 17, 183-193.	1.2	9
54	One step in situ synthesis of ZnS/N and S co-doped carbon composites via salt templating for lithium-ion battery applications. <i>New Journal of Chemistry</i> , 2019, 43, 13038-13047.	1.4	9

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55	SYNTHESIS OF NANOPOWDERS BY THE MICROWAVE PLASMA PROCESS - BASIC CONSIDERATIONS AND PERSPECTIVES FOR SCALING UP. , 2002, , 219-251.		9
56	Heterogeneous Nucleation in the Intergranular Phase of a SiAlON. Journal of the American Ceramic Society, 1992, 75, 249-252.	1.9	8
57	In situ dispersion of ZrO ₂ nanoparticles coated with pentacene. Physica Status Solidi - Rapid Research Letters, 2008, 2, 203-205.	1.2	8
58	Crystallization of Amorphous Silicon Carbonitride Investigated by Transmission Electron Microscopy (TEM). Key Engineering Materials, 1993, 89-91, 95-100.	0.4	7
59	Microwave plasma synthesis of ceramic nanopowders. Journal of Aerosol Science, 1997, 28, S685-S688.	1.8	7
60	Synthesis and optical properties of organic semiconductor: zirconia nanocomposites. Journal of Nanoparticle Research, 2010, 12, 2541-2551.	0.8	7
61	Polymer nanocomposites for optical applications. , 2012, , 567-604.		7
62	Memory effect versus exchange bias for maghemite nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 393, 239-242.	1.0	7
63	Analytical TEM Investigation of Size Effects in SnO ₂ Nanoparticles Produced by Microwave Plasma Synthesis. Microscopy and Microanalysis, 2007, 13, 430-431.	0.2	6
64	Structural and optical properties of nanoparticulate Y ₂ O ₃ :Eu ₂ O ₃ made by microwave plasma synthesis. Applied Physics A: Materials Science and Processing, 2011, 105, 709-712.	1.1	6
65	Structure and electrical properties of nanoparticulate tungsten oxide prepared by microwave plasma synthesis. Journal of Physics Condensed Matter, 2011, 23, 334206.	0.7	6
66	Reduced surface spin disorder in ZrO ₂ coated ⁵⁷ Fe-Fe ₂ O ₃ nanoparticles. Solid State Communications, 2018, 284-286, 69-74.	0.9	6
67	Development of Oxidation Resistant Refractory High Entropy Alloys for High Temperature Applications: Recent Results and Development Strategy. Minerals, Metals and Materials Series, 2018, , 647-659.	0.3	5
68	Microstructural Study of MgB ₂ in the LiBH ₄ -MgH ₂ Composite by Using TEM. Nanomaterials, 2022, 12, 1893.	1.9	5
69	Nanoparticle SnO ₂ films as gas sensitive membranes. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	3
70	<i>Bombyx mori</i> silk/titania/gold hybrid materials for photocatalytic water splitting: combining renewable raw materials with clean fuels. Beilstein Journal of Nanotechnology, 2018, 9, 187-204.	1.5	3
71	Structural Disorder in the Anion Lattice of Nanocrystalline Zirconia and Hafnia Particles. Materials Research Society Symposia Proceedings, 2000, 634, 771.	0.1	2
72	Structural characterisation of Fe ₂ O ₃ nanoparticles. Journal of Physics: Conference Series, 2016, 712, 012105.	0.3	2

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73	Elektronenmikroskopische und mikroanalytische Untersuchungen von Korngrenzenphasen in SiAlON-Keramiken. Materialwissenschaft Und Werkstofftechnik, 1990, 21, 113-115.	0.5	1
74	New Core/Shell Ta ₂ O ₅ -PMMA Nanocomposites for Applications as Polymer Waveguides. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	0
75	Properties and application potential of nanoparticles produced by a non-equilibrium microwave plasma. , 2008, , .		0
76	Influence of surface spins on the magnetization of fine maghemite nanoparticles. , 2013, , .		0
77	Disordered and Frustrated Magnetization in Coated MnFe ₂ O ₄ Nanoparticles Prepared by Microwave Plasma Synthesis. Solid State Phenomena, 2019, 289, 127-133.	0.3	0
78	Nanocomposites als Funktionswerkstoffe mit neuen Eigenschaften. , 0, , 35-44.		0
79	Microwave Plasma Synthesis of Ceramic Powders. , 0, , 619-626.		0