

Oleg Vasylykiv

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109
papers

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25
h-index

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114
ext. papers

2,194
ext. citations

3.6
avg, IF

5
L-index

#	Paper	IF	Citations
109	Synthesis and Colloidal Processing of Zirconia Nanopowder. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2489-2494	3.8	146
108	Low-Temperature Processing and Mechanical Properties of Zirconia and Zirconia/Alumina Nanoceramics. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 299-304	3.8	104
107	Modeling of the temperature distribution of flash sintered zirconia. <i>Journal of the Ceramic Society of Japan</i> , 2011 , 119, 144-146	1	96
106	Peculiarities of the neck growth process during initial stage of spark-plasma, microwave and conventional sintering of WC spheres. <i>Journal of Alloys and Compounds</i> , 2012 , 523, 1-10	5.7	74
105	High-temperature flexural strength performance of ternary high-entropy carbide consolidated via spark plasma sintering of TaC, ZrC and NbC. <i>Scripta Materialia</i> , 2019 , 164, 12-16	5.6	58
104	Microstructure and high-temperature strength of B ₄ C/TiB ₂ composite prepared by a crucibleless zone melting method. <i>Journal of Alloys and Compounds</i> , 2009 , 485, 677-681	5.7	56
103	Spark plasma sintering of MgB ₂ in the two-temperature route. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 477, 43-50	1.3	45
102	High-temperature reactive spark plasma consolidation of TiB ₂ /NbC ceramic composites. <i>Ceramics International</i> , 2015 , 41, 10828-10834	5.1	45
101	The bending strength temperature dependence of the directionally solidified eutectic LaB ₆ /ZrB ₂ composite. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6123-6129	5.7	43
100	High-hardness B ₄ C textured by a strong magnetic field technique. <i>Scripta Materialia</i> , 2011 , 64, 256-259	5.6	42
99	High-temperature strength of directionally reinforced LaB ₆ /TiB ₂ composite. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 130-134	5.7	42
98	Nonisothermal Synthesis of Yttria-Stabilized Zirconia Nanopowder through Oxalate Processing: I, Characteristics of Y-Zr Oxalate Synthesis and Its Decomposition. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2196-2202	3.8	42
97	Ultra-high elevated temperature strength of TiB ₂ -based ceramics consolidated by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 393-397	6	40
96	Flash spark plasma sintering of ultrafine yttria-stabilized zirconia ceramics. <i>Scripta Materialia</i> , 2016 , 121, 32-36	5.6	40
95	High-strength TiB ₂ /TaC ceramic composites prepared using reactive spark plasma consolidation. <i>Ceramics International</i> , 2016 , 42, 1298-1306	5.1	36
94	Toughness control of boron carbide obtained by spark plasma sintering in nitrogen atmosphere. <i>Ceramics International</i> , 2014 , 40, 3053-3061	5.1	32
93	Hydroxide synthesis, colloidal processing and sintering of nano-size 3Y-TZP powder. <i>Scripta Materialia</i> , 2001 , 44, 2219-2223	5.6	32

92	Nonisothermal Synthesis of Yttria-Stabilized Zirconia Nanopowder through Oxalate Processing: II, Morphology Manipulation. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2484-2488	3.8	30
91	Synthesis of B ₆ O powder and spark plasma sintering of B ₆ O and B ₆ O/B ₄ C ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 950-955	1	29
90	Room and high temperature toughening in directionally solidified B ₄ C/TiB ₂ eutectic composites by Si doping. <i>Journal of Alloys and Compounds</i> , 2013 , 570, 94-99	5.7	28
89	Nanoexplosion synthesis of multimetal oxide ceramic nanopowders. <i>Nano Letters</i> , 2005 , 5, 2598-604	11.5	28
88	Hardness and Fracture Toughness of Alumina-Doped Tetragonal Zirconia with Different Yttria Contents. <i>Materials Transactions</i> , 2003 , 44, 2235-2238	1.3	28
87	A dense and tough (B ₄ C/TiB ₂)/B ₄ C composite within a composite produced by spark plasma sintering. <i>Scripta Materialia</i> , 2014 , 71, 17-20	5.6	27
86	Synthesis and consolidation of TiN/TiB ₂ ceramic composites via reactive spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1601-1606	5.7	27
85	Beautiful unconventional synthesis and processing technologies of superconductors and some other materials. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 013001	7.1	26
84	Microstructure evolution during field-assisted sintering of zirconia spheres. <i>Scripta Materialia</i> , 2011 , 65, 683-686	5.6	25
83	Nano-engineering of zirconia noble metals composites. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 469-473	6	25
82	Grain boundary diffusion driven spark plasma sintering of nanocrystalline zirconia. <i>Ceramics International</i> , 2012 , 38, 4385-4389	5.1	23
81	High-Strength B ₄ C/TiB ₂ Eutectic Composites Obtained via In Situ by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2436-2441	3.8	23
80	Room and high temperature flexural failure of spark plasma sintered boron carbide. <i>Ceramics International</i> , 2016 , 42, 7001-7013	5.1	23
79	High hardness BaC _b -(B _x O _y /BN) composites with 3D mesh-like fine grain-boundary structure by reactive spark plasma sintering. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 959-65	1.3	22
78	Tough and dense boron carbide obtained by high-pressure (300 MPa) and low-temperature (1600°C) spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 271-275	1	21
77	Consolidation and grain growth of tantalum diboride during spark plasma sintering. <i>Ceramics International</i> , 2016 , 42, 16396-16400	5.1	20
76	Hard polycrystalline eutectic composite prepared by spark plasma sintering. <i>Ceramics International</i> , 2012 , 38, 3947-3953	5.1	19
75	Bulk Ti _{1-x} Al _x N nanocomposite via spark plasma sintering of nanostructured Ti _{1-x} Al _x N/AlN powders. <i>Scripta Materialia</i> , 2009 , 61, 1020-1023	5.6	19

74	Sonochemical Preparation and Properties of Pt/BY-TZP Nano-Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 639-644	3.8	19
73	Hot-spots generation, exaggerated grain growth and mechanical performance of silicon carbide bulks consolidated by flash spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 466-473	5.7	17
72	Nano-Blast Synthesis of Nano-size CeO ₂ /TiO ₂ Powders. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1822-1826	3.8	17
71	Mechanical properties of SiC/B ₄ C eutectic composites by in situ spark plasma sintering. <i>Ceramics International</i> , 2016 , 42, 19372-19385	5.1	17
70	Analysis of the high-temperature flexural strength behavior of B ₄ C/B ₂ O ₃ eutectic composites produced by in situ spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 697, 71-78	5.3	16
69	Synthesis and Sintering of Zirconia Nano-Powder by Non-Isothermal Decomposition from Hydroxide.. <i>Journal of the Ceramic Society of Japan</i> , 2001 , 109, 500-505		16
68	Precipitation synthesis and magnetic properties of self-assembled magnetite-chitosan nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 406-411	2.8	15
67	Consolidation of B ₄ C-TaB ₂ eutectic composites by spark plasma sintering Peer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society. View all notes. <i>Journal of Asian Ceramic Societies</i> , 2015 , 3, 369-372	2.4	15
66	Nanoreactor engineering and SPS densification of multimetal oxide ceramic nanopowders. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 919-927	6	15
65	High-temperature strength and plastic deformation behavior of niobium diboride consolidated by spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5295-5305	3.8	14
64	Si ₃ N ₄ -TiN nanocomposite by nitration of TiSi ₂ and consolidation by hot pressing and spark plasma sintering. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6381-9	1.3	14
63	Densification kinetics of nanocrystalline zirconia powder using microwave and spark plasma sintering—a comparative study. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 4577-82	1.3	13
62	Non-catalytic facile synthesis of superhard phase of boron carbide (B ₁₃ C ₂) nanoflakes and nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 596-603	1.3	13
61	Flexural strength behavior of a ZrB ₂ /B ₄ C composite consolidated by non-reactive spark plasma sintering at 2300 °C. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017 , 66, 31-35	4.1	12
60	A novel non-catalytic synthesis method for zero- and two-dimensional B ₁₃ C ₂ nanostructures. <i>CrystEngComm</i> , 2011 , 13, 1299-1303	3.3	12
59	Mechanism of nucleation and growth of directionally crystallized alloys of the B ₄ C/MeB ₂ system. <i>Journal of Alloys and Compounds</i> , 2010 , 490, 557-561	5.7	12
58	Hardness and toughness control of brittle boron suboxide ceramics by consolidation of star-shaped particles by spark plasma sintering. <i>Ceramics International</i> , 2016 , 42, 3525-3530	5.1	11
57	Synthesis of Multilayered Star-Shaped B ₆ O Particles Using the Seed-Mediated Growth Method. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3635-3638	3.8	11

56	Microwave Synthesis of Fullerene-Doped MgB ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11005-11010	3.9	11
55	High-Temperature Strength of Boron Suboxide Ceramic Consolidated by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2769-2777	3.8	11
54	High temperature flexural strength in monolithic boron carbide ceramic obtained from two different raw powders by spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 587 ¹ -592	10	10
53	Abnormal thermal conductivity in tetragonal tungsten bronze Ba _{6-x} Sr _x Nb ₁₀ O ₃₀ . <i>Applied Physics Letters</i> , 2014 , 104, 111903	3.4	10
52	B ₆ O ceramic by in-situ reactive spark plasma sintering of a B ₂ O ₃ and B powder mixture. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 336-340	1	10
51	Phase Relation Studies in the ZrO ₂ -TeO ₂ -La ₂ O ₃ System at 1500°C. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1911-1919	3.8	10
50	Synthesis and Characterization of Nanosize Ceria-Gadolinia Powders. <i>Journal of the Ceramic Society of Japan</i> , 2005 , 113, 101-106		10
49	Nanometric La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{3-x} ceramic prepared by low-pressure reactive spark-plasma-sintering. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2535-2539	5.7	9
48	Features of Preparing Nano-Size Powders of Tetragonal Zirconium Dioxide Stabilized with Yttrium. <i>Powder Metallurgy and Metal Ceramics</i> , 2005 , 44, 228-239	0.8	9
47	Synthesis and high-temperature properties of medium-entropy (Ti,Ta,Zr,Nb)C using the spark plasma consolidation of carbide powders. <i>Open Ceramics</i> , 2020 , 2, 100015	3.3	9
46	Synthesis of iron oxide nanoparticles with different morphologies by precipitation method with and without chitosan addition. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 489-494	1	9
45	Microstructure and mechanical properties of boron suboxide ceramics prepared by pressureless microwave sintering. <i>Ceramics International</i> , 2016 , 42, 14282-14286	5.1	9
44	Fracture and property relationships in the double diboride ceramic composites by spark plasma sintering of TiB ₂ and NbB ₂ . <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4259-4271	3.8	8
43	Challenges of nanostructuring and functional properties for selected bulk materials obtained by reactive spark plasma sintering. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FB22	1.4	8
42	Synthesis and sintering of nanocrystalline barium titanate powder under nonisothermal conditions. II. Phase analysis of the decomposition products of barium titanate-oxalate and the synthesis of barium titanate. <i>Powder Metallurgy and Metal Ceramics</i> , 1997 , 36, 277-282	0.8	8
41	Spark plasma sintering and high-temperature strength of B ₆ O-B ₂ ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3009-3014	6	7
40	High-temperature toughening in ternary medium-entropy (Ta _{1/3} Ti _{1/3} Zr _{1/3})C carbide consolidated using spark-plasma sintering. <i>Journal of Asian Ceramic Societies</i> , 2020 , 8, 1262-1270	2.4	7
39	Consolidation of B ₄ C-VB ₂ eutectic ceramics by spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 1051-1054	1	6

38	Cyclic formation of boron suboxide crystallites into star-shaped nanoplates. <i>Scripta Materialia</i> , 2015 , 99, 69-72	5.6	6
37	Synthesis and sintering of nanocrystalline barium titanate powder under nonisothermal conditions. I. Control of dispersity of barium titanate during its synthesis from barium titanyl oxalate. <i>Powder Metallurgy and Metal Ceramics</i> , 1997 , 36, 170-175	0.8	6
36	Nanoreactor engineering and spark plasma sintering of Gd ₂₀ Ce ₈₀ O _{1.90} nanopowders. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3077-84	1.3	6
35	Nano-explosion synthesis of multi-component ceramic nano-composites. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 585-592	6	6
34	Microstructure and flexural strength of hafnium diboride via flash and conventional spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 898-906	6	5
33	Superconducting MgB ₂ textured bulk obtained by ex situ spark plasma sintering from green compacts processed by slip casting under a 12 T magnetic field. <i>Superconductor Science and Technology</i> , 2019 , 32, 125001	3.1	5
32	Structure and physical properties of EuTa ₂ O ₆ tungsten bronze polymorph. <i>Applied Physics Letters</i> , 2014 , 105, 062902	3.4	5
31	Nanoblast synthesis and consolidation of (La _{0.8} Sr _{0.2})(Ga _{0.9} Mg _{0.1})O _(3-δ) under Spark plasma sintering conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 141-9	1.3	5
30	Effect of grain size on the electrical properties of samaria-doped ceria solid electrolyte. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1871-9	1.3	5
29	Tough yttria-stabilized zirconia ceramic by low-temperature spark plasma sintering of long-term stored nanopowders. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 7901-9	1.3	4
28	Zirconia nanoceramic via redispersion of highly agglomerated nanopowder and spark plasma sintering. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6634-40	1.3	4
27	Hierarchical composites of B ₄ C/TiB ₂ eutectic particles reinforced with Ti. <i>Ceramics International</i> , 2020 , 46, 28132-28144	5.1	4
26	Metal-ceramic/ceramic nanostructured layered composites for solid oxide fuel cells by spark plasma sintering. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 4218-23	1.3	3
25	Effect of carbon content on the tribological behavior of TiC _x N _{1-x} films prepared by arc-vapor deposition. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 961-967	1	3
24	Synthesis and sintering of nanocrystalline barium titanate powder under nonisothermal conditions. III. Chromatographic analysis of barium titanyl-oxalate gaseous decomposition products. <i>Powder Metallurgy and Metal Ceramics</i> , 1997 , 36, 575-578	0.8	3
23	Multiple nano-blast synthesis of PT/8Y-ZP composite nanopowders. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1625-31	1.3	3
22	Spark plasma sintered Ni-YSZ/YSZ bi-layers for solid oxide fuel cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4150-7	1.3	2
21	'Beautiful' unconventional synthesis and processing technologies of superconductors and some other materials. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 013001	7.1	2

20	High-temperature strength of boron carbide with Pt grain-boundary framework in situ synthesized during spark plasma sintering. <i>Ceramics International</i> , 2020 , 46, 9136-9144	5.1	2
19	Reactive spark plasma sintering of MgB ₂ in nitrogen atmosphere for the enhancement of the high-field critical current density. <i>Superconductor Science and Technology</i> , 2016 , 29, 105020	3.1	2
18	Highly ordered nano-scale structure in nacre of green-lipped mussel <i>Perna canaliculus</i> . <i>CrystEngComm</i> , 2016 , 18, 7501-7505	3.3	2
17	Synthesis and Properties of Multimetal Oxide Nanopowders via Nano-Explosive Technique. <i>Materials Science Forum</i> , 2007 , 534-536, 125-128	0.4	1
16	High-Toughness Tetragonal Zirconia and Zirconia/Alumina Nano-Ceramics. <i>Key Engineering Materials</i> , 2004 , 264-268, 2347-2350	0.4	1
15	Synthesis of medium-entropy (Zr _{1/3} Hf _{1/3} Ta _{1/3})B ₂ using the spark plasma consolidation of diboride powders. <i>Journal of the Ceramic Society of Japan</i> , 2020 , 128, 977-980	1	1
14	Ultra-high temperature flexure and strain driven amorphization in polycrystalline boron carbide bulks. <i>Scripta Materialia</i> , 2022 , 210, 114487	5.6	1
13	Bulks of Al-B-C obtained by reactively spark plasma sintering and impact properties by Split Hopkinson Pressure Bar. <i>Scientific Reports</i> , 2019 , 9, 19484	4.9	1
12	High-temperature deformation in bulk polycrystalline hafnium carbide consolidated using spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 7442-7442	6	1
11	Bio-inspired structured boron carbide-boron nitride composite by reactive spark plasma sintering. <i>Virtual and Physical Prototyping</i> , 2013 , 8, 253-258	10.1	0
10	Fracture peculiarities and high-temperature strength of bulk polycrystalline boron. <i>Materialia</i> , 2022 , 21, 101346	3.2	0
9	Partially-oriented MgB ₂ superconducting bulks with addition of B ₄ C and cubic BN obtained by slip casting under high magnetic field and spark plasma sintering. <i>Materials Research Bulletin</i> , 2021 , 134, 111103	5.1	0
8	Allotropic strengthening and in situ phase transformations during ultra-high-temperature flexure of bulk tantalum nitride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 141954	5.3	0
7	Nano-Blast Synthesis of NanoSize CeO ₂ /d ₂ O ₃ Powders 2014 , 141-145		
6	Nanoblast synthesis and SPS of nanostructured oxides for SOFC. <i>Journal of Electroceramics</i> , 2009 , 22, 47-54	1.5	
5	On Peculiarities of Non-Isothermal Synthesis of fine Ferroelectric Powders. <i>Key Engineering Materials</i> , 1997 , 132-136, 244-247	0.4	
4	High-Toughness Tetragonal Zirconia/Alumina Nano-Ceramics. <i>Key Engineering Materials</i> , 2006 , 317-318, 615-618	0.4	
3	Nano-Engineering and Catalytic Properties of Zirconia [Noble Metals Composite Powders. <i>Key Engineering Materials</i> , 2004 , 264-268, 93-96	0.4	

- 2 Preparation and Properties of 3Y-TZP γ -Al₂O₃ Nano-Composites. *Key Engineering Materials*, **2003**, 253, 243-254 0.4
- 1 Low-Temperature Sintering of Zirconia and Zirconia-Alumina Composite Nano-Powders. *Key Engineering Materials*, **2001**, 206-213, 39-42 0.4