# Vyacheslav I Mali

List of Publications by Year
in descending order



| 52 | 568 | 567144 15 | 713332 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 52 | 52 | 52 | 426 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Microstructure and mechanical properties of materials obtained by spark plasma sintering of Ni3Alâ€“Ni powder mixtures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138882. | 2.6 | 18 |
| 2 | Porous steel laser welding technology. AIP Conference Proceedings, 2020, , . | 0.3 | 3 |
| 3 | Microstructure and Microhardness of a Multicomponent System After Mechanical Activation and Spark Plasma Sintering. Russian Physics Journal, 2020, 62, 1746-1748. | 0.2 | 1 |
| 4 | Laser welding of porous metals. AIP Conference Proceedings, 2020, , . | 0.3 | 0 |
| 5 | The Influence of Duration of Preliminary Mechanical Activation on Microhardness of Specimens of Ni3Al Intermetallide Synthesized Under Conditions of Spark Plasma Sintering. Russian Physics Journal, 2019, 61, 1947-1949. | 0.2 | 3 |
| 6 | Ceramic-Reinforced Î³-TiAl-Based Composites: Synthesis, Structure, and Properties. Materials, 2019, 12, 629. | 1.3 | 11 |
| 7 | Spark Plasma Sintering of Diamond- and Nanodiamond-Metal Composites. , 2019, , 441-457. | | 2 |
| 8 | Specific Features of Sheet Acceleration under Conditions of Magnetic Pulse Welding. Combustion, Explosion and Shock Waves, 2018, 54, 113-118. | 0.3 | 6 |
| 9 | Welding of dissimilar alloys based on titanium and aluminum. AIP Conference Proceedings, 2018, , . | 0.3 | 0 |
| 10 | To the Technology of Laser Welding of Aluminum with Titanium. Materials Science Forum, 2018, 938, 70-74. | 0.3 | 0 |
| 11 | Structural Transformations Occurring upon Explosive Welding of Alloy Steel and High-Strength Titanium. Physics of Metals and Metallography, 2018, 119, 469-476. | 0.3 | 10 |
| 12 | Microstructure and mechanical properties of Ti/Ta/Cu/Ni alloy laminate composite materials produced by explosive welding. International Journal of Advanced Manufacturing Technology, 2017, 93, 4285-4294. | 1.5 | 38 |
| 13 | The Effect of Preliminary Mechanical Activation on the Structure and Mechanical Properties of Ni<sub>3</sub>Al+B Material Obtained by SPS. Key Engineering Materials, 2017, 743, 19-24. | 0.4 | 4 |
| 14 | Laser welding of stainless steel to titanium using explosively welded composite inserts. International Journal of Advanced Manufacturing Technology, 2017, 90, 3037-3043. | 1.5 | 22 |
| 15 | Investigation of the structure and properties of a composite insert applied at laser welding of steel with titanium. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 16 | Welding of titanium and stainless steel using the composite insert. AIP Conference Proceedings, 2016, , . | 0.3 | 1 |
| 17 | Inter-particle interactions in partially densified compacts of electrically conductive materials during spark plasma sintering. , 2016, , . | | 1 |
| 18 | Reactivity of materials towards carbon of graphite foil during Spark Plasma Sintering: A case study using Niâ€“W powders. Materials Letters, 2016, 168, 62-67. | 1.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | The influence of sintering temperature on microstructure and mechanical properties of Ni-Al intermetallics fabricated by SPS. AIP Conference Proceedings, 2015, , . | 0.3 | 4 |
| 20 | Welding of titanium and nickel alloy by combination of explosive welding and spark plasma sintering technologies. AIP Conference Proceedings, 2015, , . | 0.3 | 1 |
| 21 | Smaller crystallites in sintered materials? A discussion of the possible mechanisms of crystallite size refinement during pulsed electric current-assisted sintering. Materials Letters, 2015, 144, 168-172. | 1.3 | 21 |
| 22 | Towards a better understanding of nickel/diamond interactions: the interface formation at low temperatures. RSC Advances, 2015, 5, 51799-51806. | 1.7 | 17 |
| 23 | Metal-Intermetallic Laminate Ti-Al3Ti Composites Produced by Spark Plasma Sintering of Titanium and Aluminum Foils Enclosed in Titanium Shells. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4326-4334. | 1.1 | 35 |
| 24 | Porous electrically conductive materials produced by Spark Plasma Sintering and hot pressing of nanodiamonds. Ceramics International, 2015, 41, 12459-12463. | 2.3 | 16 |
| 25 | Sergei Konstantinovich Godunov has turned 85 years old. Russian Mathematical Surveys, 2015, 70, 561-590. | 0.2 | 0 |
| 26 | Crystallization of Fe83B17 amorphous alloy by electric pulses produced by a capacitor discharge. Applied Physics A: Materials Science and Processing, 2015, 120, 1565-1572. | 1.1 | 4 |
| 27 | Carbon uptake during Spark Plasma Sintering: investigation through the analysis of the carbide â€œfootprintâ€•in a Niâ€“W alloy. RSC Advances, 2015, 5, 80228-80237. | 1.7 | 42 |
| 28 | Formation of self-supporting porous graphite structures by Spark Plasma Sintering of nickelâ€“amorphous carbon mixtures. Journal of Physics and Chemistry of Solids, 2015, 76, 192-202. | 1.9 | 22 |
| 29 | Explosive welding of titanium with stainless steel using bronze — Tantalum as interlayer. , 2014, , . | | 3 |
| 30 | Formation of Metal-Intermetallic Laminate Composites by Spark Plasma Sintering of Metal Plates and Powder Work Pieces. Applied Mechanics and Materials, 2014, 698, 277-282. | 0.2 | 3 |
| 31 | Structure and Properties of Multilayered Composite Materials â€œNickel - Nickel Aluminideâ€•Obtained Using SPS Method. Advanced Materials Research, 2014, 1040, 161-165. | 0.3 | 7 |
| 32 | Spark Plasma Sintering of Mechanically Activated Ni and Al Powders. Advanced Materials Research, 2014, 1040, 772-777. | 0.3 | 19 |
| 33 | Effect of Heat-Treatment on the Interface Microstructure of Explosively Welded Stainless Steel â€“ Bronze Composite. Applied Mechanics and Materials, 2014, 698, 495-500. | 0.2 | 4 |
| 34 | The Structural Particularities of Multilayered Metal-Intermetallic Composites Fabricated by the Spark Plasma Sintering Technology. Advanced Materials Research, 2014, 1040, 800-804. | 0.3 | 11 |
| 35 | Laser welding of stainless steel with a titanium alloy with the use of a multilayer insert obtained in an explosion. Combustion, Explosion and Shock Waves, 2014, 50, 483-487. | 0.3 | 12 |
| 36 | Numerical and experimental simulation of wave formation during explosion welding. Proceedings of the Steklov Institute of Mathematics, 2013, 281, 12-26. | 0.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Microstructure and mechanical properties of copper-tantalum joints produced by explosive welding. , 2013, , . | | 3 |
| 38 | Ti3SiC2-Cu composites by mechanical milling and spark plasma sintering: Possible microstructure formation scenarios. Metals and Materials International, 2013, 19, 1235-1241. | 1.8 | 15 |
| 39 | Influence of the explosively welded composites structure on the diffusion processes occurring during annealing. , 2013, , . | | 10 |
| 40 | Structure and Microhardness of Cu-Ta Joints Produced by Explosive Welding. Scientific World Journal, The, 2013, 2013, 1-7. | 0.8 | 14 |
| 41 | Nucleation and growth of titanium aluminide in an explosion-welded laminate composite. Physics of Metals and Metallography, 2012, 113, 947-956. | 0.3 | 23 |
| 42 | Numerical and experimental modeling of jet formation during a high-velocity oblique impact of metal plates. Combustion, Explosion and Shock Waves, 2012, 48, 214-225. | 0.3 | 28 |
| 43 | Formation and structure of vortex zones arising upon explosion welding of carbon steels. Physics of Metals and Metallography, 2012, 113, 233-240. | 0.3 | 21 |
| 44 | Crystallization of Ti33Cu67 metallic glass under high-current density electrical pulses. Nanoscale Research Letters, 2011, 6, 512. | 3.1 | 4 |
| 45 | Effect of the metal structure on the loss of stability of a thin plate separating a powder compressed by a shock wave. Combustion, Explosion and Shock Waves, 2010, 46, 96-102. | 0.3 | 2 |
| 46 | Nanocomposites TiB2-Cu: Consolidation and erosion behavior. Journal of Materials Science, 2005, 40, 3491-3495. | 1.7 | 13 |
| 47 | Heat Conduction of Copperâ€“Molybdenum Explosive Compacts. Combustion, Explosion and Shock Waves, 2003, 39, 108-111. | 0.3 | 3 |
| 48 | Structure and Properties of Explosively Compacted Copperâ€“Molybdenum. Combustion, Explosion and Shock Waves, 2002, 38, 473-477. | 0.3 | 12 |
| 49 | Influence of material viscosity on the jet formation process during collisions of metal plates. Combustion, Explosion and Shock Waves, 1976, 11, 1-13. | 0.3 | 27 |
| 50 | Investigation of the breakdown of flat jets. Combustion, Explosion and Shock Waves, 1974, 10, 676-682. | 0.3 | 7 |
| 51 | Formation of Intermetallic Structures by Spark Plasma Sintering of Titanium and Aluminum Powders. Applied Mechanics and Materials, 0, 788, 177-181. | 0.2 | 2 |
| 52 | Effect of Preliminary Treatment on Microstructure, Mechanical Properties and Fracture of Ni3Al Samples Synthesized by Spark Plasma Sintering. Russian Physics Journal, 0, , 1. | 0.2 | 1 |