# Vladimir M Vishnyakov

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8638830/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 31 papers | 987 citations | 430843 18 h-index | 434170 31 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 1437 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The effect of crystalline phase (anatase, brookite and rutile) and size on the photocatalytic activity of calcined polymorphic titanium dioxide (TiO 2 ). Polymer Degradation and Stability, 2018, 150, 31-36. | 5.8 | 151 |
| 2 | Proton exchange membrane fuel cells. Vacuum, 2006, 80, 1053-1065. | 3.5 | 147 |
| 3 | Relationship between mechanical properties of thin nitride-based films and their behaviour in nano-scratch tests. Tribology International, 2011, 44, 468-475. | 5.9 | 81 |
| 4 | Development of DLC coating architectures for demanding functional surface applications through nano- and micro-mechanical testing. Surface and Coatings Technology, 2015, 284, 334-343. | 4.8 | 48 |
| 5 | Hydrogenation of Graphene by Reaction at High Pressure and High Temperature. ACS Nano, 2015, 9, 8279-8283. | 14.6 | 46 |
| 6 | Ion assisted deposition of titanium chromium nitride. Thin Solid Films, 2006, 497, 189-195. | 1.8 | 45 |
| 7 | Microstructural origins of the high mechanical damage tolerance of NbTaMoW refractory high-entropy alloy thin films. Materials and Design, 2019, 170, 107692. | 7.0 | 40 |
| 8 | Early diagenetic vivianite [Fe3(PO4)2Â·8H2O] in a contaminated freshwater sediment and insights into zinc uptake: A Î¼-EXAFS, Î¼-XANES and Raman study. Applied Geochemistry, 2008, 23, 1623-1633. | 3.0 | 38 |
| 9 | Reactive hot pressing route for dense ZrB2-SiC and ZrB2-SiC-CNT ultra-high temperature ceramics. Journal of the European Ceramic Society, 2020, 40, 5012-5019. | 5.7 | 36 |
| 10 | Amorphous Boron containing silicon carbo-nitrides created by ion sputtering. Surface and Coatings Technology, 2011, 206, 149-154. | 4.8 | 34 |
| 11 | Radiation resistance and mechanical properties of magnetron-sputtered Cr2AlC thin films. Journal of Nuclear Materials, 2019, 526, 151742. | 2.7 | 33 |
| 12 | Composition of Smoke Generated by Landing Aircraft. Environmental Science & Technology, 2011, 45, 3533-3538. | 10.0 | 27 |
| 13 | The optimisation of facile substrates for surface enhanced Raman scattering through galvanic replacement of silver onto copper. Analyst, The, 2012, 137, 2791. | 3.5 | 27 |
| 14 | Synthesis and characterisation of high-entropy alloy thin films as candidates for coating nuclear fuel cladding alloys. Thin Solid Films, 2018, 649, 115-120. | 1.8 | 27 |
| 15 | A study of the formation of nanometer-scale cavities in helium-implanted 4H-SiC. Nuclear Instruments & Methods in Physics Research B, 2004, 218, 53-60. | 1.4 | 26 |
| 16 | Reactive sintering of TiB2-SiC-CNT ceramics. Ceramics International, 2019, 45, 22769-22774. | 4.8 | 21 |
| 17 | Nano-scratch, nanoindentation and fretting tests of 5â€“80nm ta-C films on Si(100). Wear, 2013, 301, 575-582. | 3.1 | 20 |
| 18 | Deviating from the pure MAX phase concept: Radiation-tolerant nanostructured dual-phase Cr <sub>2</sub> AlC. Science Advances, 2021, 7, . | 10.3 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Corrosion performance and mechanical properties of FeCrSiNb amorphous equiatomic HEA thin film. Surface and Coatings Technology, 2021, 422, 127486. | 4.8 | 19 |
| 20 | Initial stages of oxidation of near-stoichiometric titanium carbide at low oxygen pressures. Journal of Alloys and Compounds, 2009, 472, 373-377. | 5.5 | 18 |
| 21 | The effects of radiation damage and impurities on void dynamics in silicon. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 132-139. | 1.4 | 17 |
| 22 | Identification of purple dye from molluscs on an excavated textile byÂnon-destructive analytical techniques. Dyes and Pigments, 2013, 96, 774-780. | 3.7 | 14 |
| 23 | A candidate accident tolerant fuel system based on a highly concentrated alloy thin film. Materials Today Energy, 2019, 12, 356-362. | 4.7 | 12 |
| 24 | Reactively sintered TiB2-based heteromodulus UHT ceramics with in-situ formed graphene for machinable concentrated solar light absorbers. Ceramics International, 2022, 48, 17828-17836. | 4.8 | 9 |
| 25 | Anomalous annealing behavior of isolated amorphous zones in silicon. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 595-597. | 1.4 | 8 |
| 26 | Demanding applications in harsh environment â€“ FeCrMnNiC amorphous equiatomic alloy thin film. Materials Science and Technology, 2020, 36, 1301-1307. | 1.6 | 7 |
| 27 | Microstructure and properties of FeCrMnNiCx compositionally complex bulk alloys. Vacuum, 2021, 188, 110181. | 3.5 | 6 |
| 28 | The effect of ion-beam specimen preparation techniques on vacancy-type defects in silicon. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 610-613. | 1.4 | 4 |
| 29 | Interface Dynamics in Strained Polymer Nanocomposites: Stickâ€“Slip Wrapping as a Prelude to Mechanical Backbone Twisting Derived from Sonication-Induced Amorphization. Journal of Physical Chemistry C, 2015, 119, 20091-20099. | 3.1 | 4 |
| 30 | The use of cavities for gettering in silicon microelectronic devices. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 422-426. | 1.4 | 2 |
| 31 | Single-phase FeMnNiAl compositionally complex alloy. Journal of Alloys and Compounds, 2021, 867, 158861. | 5.5 | 1 |