

# Artem A Trofimov

## List of Publications by Year in descending order

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17  
papers

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citations

1040056

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h-index

1058476

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22  
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22  
docs citations

22  
times ranked

286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binder jet printed WC infiltrated with pre-made melt of WC and Co. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105137.	3.8	30
2	Properties of SiCâ€Si made via binder jet 3D printing of SiC powder, carbon addition, and silicon melt infiltration. Journal of the American Ceramic Society, 2021, 104, 5467-5478.	3.8	29
3	Evaluation of measuring thermal conductivity of isotropic and anisotropic thermally insulating materials by transient plane source (Hot Disk) technique. Journal of Porous Materials, 2020, 27, 1791-1800.	2.6	22
4	High Resolution Multimodal Chemical Imaging Platform for Organics and Inorganics. Analytical Chemistry, 2019, 91, 12142-12148.	6.5	16
5	Deep data analytics for genetic engineering of diatoms linking genotype to phenotype via machine learning. Npj Computational Materials, 2019, 5, .	8.7	16
6	Advanced characterization of surface-modified nanoparticles and nanofilled antibacterial dental adhesive resins. Scientific Reports, 2020, 10, 9811.	3.3	16
7	Understanding Degradation Mechanisms in SrIrO <sub>3</sub> Oxygen Evolution Electrocatalysts: Chemical and Structural Microscopy at the Nanoscale. Advanced Functional Materials, 2021, 31, 2101542.	14.9	16
8	Organic Fluorophore Coated Polycrystalline Ceramic LSO:Ce Scintillators for X-ray Bioimaging. Langmuir, 2019, 35, 171-182.	3.5	14
9	Permeation and optical properties of YAG:Er <sup>3+</sup> fiber membrane scintillators prepared by novel solâ€gel/electrospinning method. Journal of Sol-Gel Science and Technology, 2017, 83, 35-43.	2.4	12
10	Thick Er-doped silica films sintered using CO <sub>2</sub> laser for scintillation applications. Optical Materials, 2017, 68, 63-69.	3.6	9
11	Direct inkjet printing of miniaturized luminescent YAG:Er <sup>3+</sup> from sol-gel precursor. Optical Materials, 2017, 68, 11-18.	3.6	7
12	CrossVis: A visual analytics system for exploring heterogeneous multivariate data with applications to materials and climate sciences. Graphics and Visual Computing, 2020, 3, 200013.	1.1	7
13	Thermophysical properties and reversible phase transitions in yttrium hydride. Journal of Nuclear Materials, 2020, 542, 152569.	2.7	6
14	Aluminaâ€based filters made via binder jet 3D printing of alumina powder, colloidal silica infiltration, and sintering. International Journal of Applied Ceramic Technology, 2021, 18, 1960-1968.	2.1	4
15	Helium Ion Microscopy with Secondary Ion Mass Spectrometry for Nanoscale Chemical Imaging and Analysis of Polyolefins. ACS Applied Polymer Materials, 2021, 3, 3478-3484.	4.4	2
16	Evaluation of adhesion of asphalt binders using wicking experiments. Surface Innovations, 2016, 4, 195-204.	2.3	1
17	Surface Analysis of Polymers using Helium Ion Microscopy Coupled with Secondary Ion Mass Spectrometry (HIM-SIMS). Microscopy and Microanalysis, 2019, 25, 868-869.	0.4	1