

Maxim Sokol

List of Publications by Year in descending order

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44
papers

2,301
citations

279487

23
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243296

44
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46
all docs

46
docs citations

46
times ranked

2097
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Chemical Diversity of the MAX Phases. Trends in Chemistry, 2019, 1, 210-223.	4.4	490
2	2D Ti ₃ C ₂ Tz MXene Synthesized by Water-free Etching of Ti ₃ AlC ₂ in Polar Organic Solvents. Chem, 2020, 6, 616-630.	5.8	303
3	Edge Capping of 2D MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. Angewandte Chemie - International Edition, 2019, 58, 12655-12660.	7.2	225
4	Effect of Edge Charges on Stability and Aggregation of Ti ₃ C ₂ Tz MXene Colloidal Suspensions. Journal of Physical Chemistry C, 2018, 122, 27745-27753.	1.5	150
5	A progress report on the MAB phases: atomically laminated, ternary transition metal borides. International Materials Reviews, 2020, 65, 226-255.	9.4	135
6	Edge Capping of 2D MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. Angewandte Chemie, 2019, 131, 12785-12790.	1.6	78
7	High-pressure spark plasma sintering (SPS) of transparent polycrystalline magnesium aluminate spinel (PMAS). Journal of the European Ceramic Society, 2014, 34, 4305-4310.	2.8	75
8	An inverse Hall-Petch relation in nanocrystalline MgAl ₂ O ₄ spinel consolidated by high pressure spark plasma sintering (HPSPS). Scripta Materialia, 2017, 139, 159-161.	2.6	65
9	Nano-structured MgAl ₂ O ₄ spinel consolidated by high pressure spark plasma sintering (HPSPS). Journal of the European Ceramic Society, 2017, 37, 755-762.	2.8	64
10	Nylon-6/Ti ₃ C ₂ Tz MXene Nanocomposites Synthesized by in Situ Ring Opening Polymerization of μ -Caprolactam and Their Water Transport Properties. ACS Applied Materials & Interfaces, 2019, 11, 20425-20436.	4.0	52
11	Dispersion and Stabilization of Alkylated 2D MXene in Nonpolar Solvents and Their Pseudocapacitive Behavior. Cell Reports Physical Science, 2020, 1, 100042.	2.8	43
12	Effect of grain size on the static and dynamic mechanical properties of magnesium aluminate spinel (MgAl ₂ O ₄). Journal of the European Ceramic Society, 2017, 37, 3417-3424.	2.8	40
13	Water Transport and Thermomechanical Properties of Ti ₃ C ₂ Tz MXene Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2019, 11, 39143-39149.	4.0	40
14	Transparent Polycrystalline Magnesium Aluminate Spinel Fabricated by Spark Plasma Sintering. Advanced Materials, 2018, 30, e1706283.	11.1	38
15	Optical and mechanical properties of transparent alumina fabricated by high-pressure spark plasma sintering. Journal of the European Ceramic Society, 2019, 39, 2712-2719.	2.8	38
16	Bonding and oxidation protection of Ti ₂ AlC and Cr ₂ AlC for a Ni-based superalloy. Journal of the European Ceramic Society, 2019, 39, 878-882.	2.8	38
17	Residual porosity and optical properties of spark plasma sintered transparent polycrystalline cerium-doped YAG. Journal of the European Ceramic Society, 2019, 39, 1436-1442.	2.8	37
18	Functional Properties of Nd:YAG Polycrystalline Ceramics Processed by High-Pressure Spark Plasma Sintering (HPSPS). Journal of the American Ceramic Society, 2016, 99, 802-807.	1.9	30

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19	High-pressure spark plasma sintering of silicon nitride with LiF additive. Journal of the European Ceramic Society, 2018, 38, 1271-1277.	2.8	30
20	Deformation in nanocrystalline ceramics: A microstructural study of MgAl ₂ O ₄ . Acta Materialia, 2020, 183, 137-144.	3.8	27
21	Mechanical, thermal and optical properties of the SPS-processed polycrystalline Nd:YAG. Optical Materials, 2014, 38, 204-210.	1.7	26
22	Stress-enhanced dynamic grain growth during high-pressure spark plasma sintering of alumina. Acta Materialia, 2019, 164, 390-399.	3.8	26
23	On a Two-Dimensional MoS ₂ /MoCT _x Hydrogen Evolution Catalyst Obtained by the Topotactic Sulfurization of Mo ₂ CT _x MXene. Journal of the Electrochemical Society, 2020, 167, 124507.	1.3	26
24	Polycrystalline transparent magnesium aluminate spinel processed by a combination of spark plasma sintering (SPS) and hot isostatic pressing (HIP). Journal of the European Ceramic Society, 2018, 38, 5153-5159.	2.8	25
25	Highly-doped Nd:YAG ceramics fabricated by conventional and high pressure SPS. Ceramics International, 2019, 45, 12279-12284.	2.3	24
26	Synthesis of new M-layer solid-solution 312 MAX phases (Ta _{1-x} Ti _x) ₃ AlC ₂ (x = 0.4, 0.62). Journal of the American Ceramic Society, 2020, 103, 1070-1074.	1.7	24
27	Creep of Polycrystalline Magnesium Aluminate Spinel Studied by an SPS Apparatus. Materials, 2016, 9, 493.	1.3	19
28	Using a spark plasma sintering apparatus as a tool in a compressive creep study of fine-grained alumina. Ceramics International, 2017, 43, 9369-9376.	2.3	18
29	On the effects of LiF on the synthesis and reactive sintering of gahnite (ZnAl ₂ O ₄). Ceramics International, 2017, 43, 14891-14896.	2.3	13
30	Effect of grain orientation on the compressive response of highly oriented MAX phase Ti ₃ SiC ₂ . Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 809, 140869.	2.6	13
31	On the interactions of Ti ₂ AlC, Ti ₃ AlC ₂ , Ti ₃ SiC ₂ and Cr ₂ AlC with palladium at 900°C. Journal of Alloys and Compounds, 2019, 771, 1103-1110.	2.8	12
32	Thermal stability of the nanolayered Fe ₂ AlB ₂ in nitrogen and argon atmospheres. Journal of the American Ceramic Society, 2021, 104, 733-739.	1.9	10
33	Tuning functional two-dimensional MXene nanosheets to enable efficient sulfur utilization in lithium-sulfur batteries. Cell Reports Physical Science, 2021, 2, 100480.	2.8	10
34	Sulfur confined MXene hosts enabling the use of carbonate-based electrolytes in alkali metal (Li/Na/K)-sulfur batteries. Materials Today Energy, 2022, 27, 101000.	2.5	9
35	Spark plasma sintering of Ti _{1-x} Al _x N nano-powders synthesized by high-energy ball milling. Ceramics International, 2016, 42, 11077-11084.	2.3	8
36	Magnetic properties of B ₂ Physical Review Materials, 2020, 4, .	0.9	8

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37	Reaction paths and microstructures of nickel and Ti ₂ AlC mixtures hot pressed and annealed in the 1050–1350 °C temperature range. Journal of Alloys and Compounds, 2020, 828, 154193.	2.8	7
38	Passive Q-switching of a Tm:YLF laser with a Co ²⁺ doped silver halide saturable absorber. Optical Materials, 2017, 64, 64-69.	1.7	6
39	Enhanced yield synthesis of bulk dense (M _{2/3} Y _{1/3}) ₂ AlC (M = Cr, W, Mo) in-plane chemically ordered quaternary atomically laminated i-MAX phases and oxidation of (Cr _{2/3} Y _{1/3}) ₂ AlC and (Mo _{2/3} Y _{1/3}) ₂ AlC. Journal of Alloys and Compounds, 2021, 867, 158930.	2.8	5
40	Fabrication of Polycrystalline Transparent Co ²⁺ : MgAl ₂ O ₄ by a Combination of Spark Plasma Sintering (SPS) and Hot Isostatic Pressing (HIP) Processes. MATEC Web of Conferences, 2017, 109, 03002.	0.1	4
41	Compression creep of copper under electric current studied by a spark plasma sintering (SPS) apparatus. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 424-429.	2.6	4
42	Electrocatalytic oxygen evolution reaction (OER) on mixed nanoporous RuIr borides. Journal of Applied Electrochemistry, 2021, 51, 1101-1108.	1.5	3
43	Isothermal Oxidation of Ti ₃ Al _{0.6} Ga _{0.4} C ₂ MAX Phase Solid Solution in Air at 1000 °C to 1300 °C. Journal of the Electrochemical Society, 2022, 169, 031510.	1.3	3
44	Abnormal response of $Ti_{3.9}C_2$ to high strain-rate loading. Physical Review Materials, 2019, 3, .	0.9	1