Maxim Sokol

List of Publications by Year
in descending order

44	2,301	279487	243296
papers	citations	23 h-index	44 g-index

46	46	46	2097
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Isothermal Oxidation of Ti₃Al_{0.6}Ga_{0.4}C₂ MAX Phase Solid Solution in Air at 1000 Â°C to 1300 Â°C. Journal of the Electrochemical Society, 2022, 169, 031510.	1.3	3
2	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
3	Thermal stability of the nanolayered Fe₂AlB₂ in nitrogen and argon atmospheres. Journal of the American Ceramic Society, 2021, 104, 733-739.	1.9	10
4	Effect of grain orientation on the compressive response of highly oriented MAX phase Ti3SiC2. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 809, 140869.	2.6	13
5	Electrocatalytic oxygen evolution reaction (OER) on mixed nanoporous RuIr borides. Journal of Applied Electrochemistry, 2021, 51, 1101-1108.	1.5	3
6	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
7	Enhanced yield synthesis of bulk dense (M2/3Y1/3)2AlC (M = Cr, W, Mo) in-plane chemically ordered quaternary atomically laminated i-MAX phases and oxidation of (Cr2/3Y1/3)2AlC and (Mo2/3Y1/3)2AlC. Journal of Alloys and Compounds, 2021, 867, 158930.	2.8	5
8	Synthesis of new M-layer solid-solution 312 MAX phases (Ta_{1â^'x}Ti_x)₃AlC₂ (x = 0.4, 0.62,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.7	2
9	A progress report on the MAB phases: atomically laminated, ternary transition metal borides. International Materials Reviews, 2020, 65, 226-255.	9.4	135
10	Deformation in nanocrystalline ceramics: A microstructural study of MgAl2O4. Acta Materialia, 2020, 183, 137-144.	3.8	27
11	2D Ti3C2Tz MXene Synthesized by Water-free Etching of Ti3AlC2 in Polar Organic Solvents. CheM, 2020, 6, 616-630.	5.8	303
12	Reaction paths and microstructures of nickel and Ti2AlC mixtures hot pressed and annealed in the 1050â€“1350â€¯Â°C temperature range. Journal of Alloys and Compounds, 2020, 828, 154193.	2.8	7
13	Dispersion and Stabilization of Alkylated 2D MXene in Nonpolar Solvents and Their Pseudocapacitive Behavior. Cell Reports Physical Science, 2020, 1, 100042.	2.8	43
14	Magnetic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:mn>2</mml:mn></m. Physical Review Materials, 2020, 4, .	0.9	8
15	On a Two-Dimensional MoS₂/Mo₂CT_x Hydrogen Evolution Catalyst Obtained by the Topotactic Sulfurization of Mo₂CT_x MXene. Journal of the Electrochemical Society, 2020, 167, 124507.	1.3	26
16	On the interactions of Ti2AlC, Ti3AlC2, Ti3SiC2 and Cr2AlC with palladium at 900â€¯Â°C. Journal of Alloys and Compounds, 2019, 771, 1103-1110.	2.8	12
17	Edge Capping of 2Dâ€MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. Angewandte Chemie, 2019, 131, 12785-12790.	1.6	78
18	Edge Capping of 2Dâ€MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. Angewandte Chemie - International Edition, 2019, 58, 12655-12660.	7.2	225

#	Article	IF	Citations
19	Water Transport and Thermomechanical Properties of Ti₃C₂T_z MXene Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2019, 11, 39143-39149.	4.0	40
20	Nylon-6/Ti₃C₂T_z MXene Nanocomposites Synthesized by in Situ Ring Opening Polymerization of Îµ-Caprolactam and Their Water Transport Properties. ACS Applied Materials & Interfaces, 2019, 11, 20425-20436.	4.0	52
21	Highly-doped Nd:YAG ceramics fabricated by conventional and high pressure SPS. Ceramics International, 2019, 45, 12279-12284.	2.3	24
22	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
23	On the Chemical Diversity of the MAX Phases. Trends in Chemistry, 2019, 1, 210-223.	4.4	490
24	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
25	Bonding and oxidation protection of Ti2AlC and Cr2AlC for a Ni-based superalloy. Journal of the European Ceramic Society, 2019, 39, 878-882.	2.8	38
26	Stress-enhanced dynamic grain growth during high-pressure spark plasma sintering of alumina. Acta Materialia, 2019, 164, 390-399.	3.8	26
27	Abnormal response of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ti</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> to high strain-rate loading. Physical Review Materials, 2019, 3, .	0.9	1
28	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
29	High-pressure spark plasma sintering of silicon nitride with LiF additive. Journal of the European Ceramic Society, 2018, 38, 1271-1277.	2.8	30
30	Effect of Edge Charges on Stability and Aggregation of Ti₃C₂T_z MXene Colloidal Suspensions. Journal of Physical Chemistry C, 2018, 122, 27745-27753.	1.5	150
31	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
32	Transparent Polycrystalline Magnesium Aluminate Spinel Fabricated by Spark Plasma Sintering. Advanced Materials, 2018, 30, e1706283.	11.1	38
33	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
34	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
35	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
36	On the effects of LiF on the synthesis and reactive sintering of gahnite (ZnAl2O4). Ceramics International, 2017, 43, 14891-14896.	2.3	13

#	Article	IF	Citations
37	Fabrication of Polycrystalline Transparent Co⁺²: MgAl₂O₄ by a Combination of Spark Plasma Sintering (SPS) and Hot Isostatic Pressing (HIP) Processes. MATEC Web of Conferences, 2017, 109, 03002.	0.1	4
38	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
39	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
40	Creep of Polycrystalline Magnesium Aluminate Spinel Studied by an SPS Apparatus. Materials, 2016, 9, 493.	1.3	19
41	Functional Properties of Nd:<scp>YAG</scp> Polycrystalline Ceramics Processed by Highâ€Pressure Spark Plasma Sintering (<scp>HPSPS</scp>). Journal of the American Ceramic Society, 2016, 99, 802-807.	1.9	30
42	Spark plasma sintering of Ti1â^'Al N nano-powders synthesized by high-energy ball milling. Ceramics International, 2016, 42, 11077-11084.	2.3	8
43	Mechanical, thermal and optical properties of the SPS-processed polycrystalline Nd:YAG. Optical Materials, 2014, 38, 204-210.	1.7	26
44	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