

Olivier Guillon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

282
papers

6,063
citations

37
h-index

65
g-index

302
ext. papers

7,522
ext. citations

5.2
avg, IF

6.37
L-index

#	Paper	IF	Citations
282	Free standing dual phase cathode tapes Scalable fabrication and microstructure optimization of garnet-based ceramic cathodes. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2320-2326	13	2
281	Fabrication of thin sheets of the sodium superionic conductor Na ₅ YSi ₄ O ₁₂ with tape casting. <i>Chemical Engineering Journal</i> , 2022 , 435, 134774	14.7	1
280	Tape-casting and freeze-drying gadolinia-doped ceria composite membranes for carbon dioxide permeation. <i>Journal of Membrane Science</i> , 2022 , 648, 120355	9.6	1
279	Conductivity enhancement of Al- and Ta-substituted Li ₇ La ₃ Zr ₂ O ₇ solid electrolytes by nanoparticles. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 1033-1041	6	1
278	Effect of texture and grain size on the compressive creep of Ti ₃ SiC ₂ MAX phase ceramics. <i>Materialia</i> , 2022 , 21, 101295	3.2	0
277	Assessing the role of Joule heating on densification during flash sintering of YSZ. <i>Scripta Materialia</i> , 2022 , 211, 114508	5.6	2
276	Performance study of asymmetric oxygen transport membranes with vertically channelled pores by phase inversion tape casting. <i>Open Ceramics</i> , 2022 , 9, 100248	3.3	
275	Effect of Low-CTE Oxide-Dispersion-Strengthened Bond Coats on Columnar-Structured YSZ Coatings. <i>Coatings</i> , 2022 , 12, 396	2.9	0
274	Guidelines to correctly measure the lithium ion conductivity of oxide ceramic electrolytes based on a harmonized testing procedure. <i>Journal of Power Sources</i> , 2022 , 531, 231323	8.9	1
273	Rapid thermal sintering of screen-printed LiCoO ₂ films. <i>Thin Solid Films</i> , 2022 , 749, 139177	2.2	1
272	Delithiation-induced oxygen vacancy formation increases microcracking of LiCoO ₂ cathodes. <i>Journal of Power Sources</i> , 2022 , 533, 231316	8.9	1
271	Ultra-fast high-temperature sintering of strontium titanate. <i>Acta Materialia</i> , 2022 , 231, 117918	8.4	2
270	Boron in Ni-Rich NCM811 Cathode Material: Impact on Atomic and Microscale Properties. <i>ACS Applied Energy Materials</i> , 2022 , 5, 524-538	6.1	4
269	A Perspective on Thermally Sprayed Thermal Barrier Coatings: Current Status and Trends. <i>Journal of Thermal Spray Technology</i> , 2022 , 31, 685-698	2.5	2
268	Electro-chemo-mechanical analysis of a solid oxide cell based on doped ceria. <i>Journal of Power Sources</i> , 2022 , 541, 231505	8.9	0
267	The role of fluorination during the physicochemical erosion of yttria in fluorine-based etching plasmas. <i>Journal of the European Ceramic Society</i> , 2021 , 42, 561-561	6	0
266	Evaluation of Scalable Synthesis Methods for Aluminum-Substituted LiLaZrO Solid Electrolytes. <i>Materials</i> , 2021 , 14,	3.5	5

265	Mechanical properties of cold sintered ZnO investigated by nanoindentation and micro-pillar testing. <i>Journal of the European Ceramic Society</i> , 2021 , 42, 512-512	6	1
264	Bio-Derived Surface Layer Suitable for Long Term Cycling Ni-Rich Cathode for Lithium-Ion Batteries. <i>Small</i> , 2021 , 17, e2104532	11	1
263	Polymer/Ceramic Composite Cathode with Enhanced Storage Capacity Manufactured by Field-Assisted Sintering and Infiltration. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10428-10432	6.1	1
262	Modelling electro-chemical induced stresses in all-solid-state batteries: Anisotropy effects in cathodes and cell design optimisation. <i>Journal of Power Sources</i> , 2021 , 489, 229430	8.9	6
261	Ceramic materials for energy conversion and storage: A perspective. <i>International Journal of Ceramic Engineering & Science</i> , 2021 , 3, 100-104	2	2
260	A New Approach to Stable Cationic and Anionic Redox Activity in O3-Layered Cathode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100901	21.8	7
259	Segregation-controlled densification and grain growth in rare earth-doped Y2O3. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4946-4959	3.8	1
258	Origin of Structural Phase Transitions in Ni-Rich $\text{Li}_x\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ with Lithiation/Delithiation: A First-Principles Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7437-7446	8.3	6
257	Development of a processing map for safe flash sintering of gadolinium-doped ceria. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4316-4328	3.8	6
256	Scalable Synthesis of MAX Phase Precursors toward Titanium-Based MXenes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26074-26083	9.5	6
255	Enhancing oxygen permeation of solid-state reactive sintered $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_2\text{-FeCo}_2\text{O}_4$ composite by optimizing the powder preparation method. <i>Journal of Membrane Science</i> , 2021 , 628, 119248	9.6	8
254	Processing and oxidation response of Cr2AlC MAX-phase composites containing ceramic fibers. <i>Open Ceramics</i> , 2021 , 6, 100090	3.3	1
253	Novel low-temperature lean NOx storage materials based on $\text{La}_{0.5}\text{Sr}_{0.5}\text{Fe}_{1-x}\text{M}_x\text{O}_{3-\delta}/\text{Al}_2\text{O}_3$ infiltration composites (M = Ti, Zr, Nb). <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119919	21.8	3
252	Co-Sintering Study of $\text{Na}_{0.67}[\text{Ni}_{0.1}\text{Fe}_{0.1}\text{Mn}_{0.8}]\text{O}_2$ and NaSICON Electrolyte Paving the way to High Energy Density All-Solid-State Batteries. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	1
251	Measures to Reduce the N2O Formation at Perovskite-Based Lean NOx Trap Catalysts under Lean Conditions. <i>Catalysts</i> , 2021 , 11, 917	4	
250	Path to single-crystalline repair and manufacture of Ni-based superalloy using directional annealing. <i>Surface and Coatings Technology</i> , 2021 , 405, 126494	4.4	0
249	Low temperature sintering of fully inorganic all-solid-state batteries Impact of interfaces on full cell performance. <i>Journal of Power Sources</i> , 2021 , 482, 228905	8.9	19
248	Optimization of sintering conditions for improved microstructural and mechanical properties of dense $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_2\text{-FeCo}_2\text{O}_4$ oxygen transport membranes. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 509-516	6	12

247	Influence of powder characteristics on cold sintering of nano-sized ZnO with density above 99 %. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2648-2662	6	7
246	Erosion behavior of Y2O3 in fluorine-based etching plasmas: Orientation dependency and reaction layer formation. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1465-1474	3.8	3
245	Synthesis, sintering, and effect of surface roughness on oxidation of submicron Ti2AlC ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1669-1688	3.8	7
244	Mechanical reliability of Ce0.8Gd0.2O2FeCo2O4 dual phase membranes synthesized by one-step solid-state reaction. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1814-1830	3.8	4
243	Ionic Conductivity of Na3V2P3O12 as a Function of Electrochemical Potential and its Impact on Battery Performance. <i>Batteries and Supercaps</i> , 2021 , 4, 479-484	5.6	5
242	A microwave-based one-pot process for homogeneous surface coating: improved electrochemical performance of Li(Ni1/3Mn1/3Co1/3)O2 with a nano-scaled ZnO:Al layer. <i>Nano Select</i> , 2021 , 2, 146-157	3.1	
241	Influence of Process Parameters on the Aerosol Deposition (AD) of Yttria-Stabilized Zirconia Particles. <i>Journal of Thermal Spray Technology</i> , 2021 , 30, 488-502	2.5	3
240	Unique performance of thermal barrier coatings made of yttria-stabilized zirconia at extreme temperatures (>1500°C). <i>Journal of the American Ceramic Society</i> , 2021 , 104, 463-471	3.8	8
239	Performance Benchmark of Planar Solid Oxide Cells Based on Material Development and Designs. <i>Energy Technology</i> , 2021 , 9, 2001062	3.5	11
238	Composition/Performance Evaluation of Lean NOx Trap Catalysts for Coupling with SCR Technology. <i>ChemCatChem</i> , 2021 , 13, 1787-1805	5.2	4
237	Electronic Structure Engineering of Honeycomb Layered Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003399	21.8	11
236	Exsolution of Embedded Nanoparticles in Defect Engineered Perovskite Layers. <i>ACS Nano</i> , 2021 , 15, 4546-4560	16.7	5
235	Solvent Co-intercalation into Few-layered TiCT MXenes in Lithium Ion Batteries Induced by Acidic or Basic Post-treatment. <i>ACS Nano</i> , 2021 , 15, 3295-3308	16.7	16
234	High temperature compressive creep behavior of BaCe0.65Zr0.2Y0.15O3 in air and 4% H2/Ar. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2730-2740	3.8	
233	Improving the W Coating Uniformity by a COMSOL Model-Based CVD Parameter Study for Denser Wf/W Composites. <i>Metals</i> , 2021 , 11, 1089	2.3	2
232	Mechanism for breakaway oxidation of the Ti2AlC MAX phase. <i>Acta Materialia</i> , 2021 , 215, 117025	8.4	3
231	Constrained sintering of alumina micro-ring films on stiff and compliant substrates: Constriction or dilation?. <i>Acta Materialia</i> , 2021 , 216, 117159	8.4	
230	Modeling and experimental validation of a Wf/W-fabrication by chemical vapor deposition and infiltration. <i>Nuclear Materials and Energy</i> , 2021 , 28, 101048	2.1	2

229	Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte sintered by the ultrafast high-temperature method. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 6075-6079	6	10
228	Residual stress and mechanical strength of Ce _{0.8} Gd _{0.2} O ₂ -FeCo ₂ O ₄ dual phase oxygen transport membranes. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 6539-6547	6	3
227	Electric-field-assisted processing of ceramics: Nonthermal effects and related mechanisms. <i>MRS Bulletin</i> , 2021 , 46, 52-58	3.2	12
226	Controlling the lithium proton exchange of LLZO to enable reproducible processing and performance optimization. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4831-4840	13	11
225	Improved Adhesion of Different Environmental Barrier Coatings on Al ₂ O ₃ /Al ₂ O ₃ -Ceramic Matrix Composites. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000087	3.5	4
224	Performances of Solid Oxide Cells with La _{0.97} Ni _{0.5} Co _{0.5} O ₃ Air-Electrodes. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 084522	3.9	1
223	Experimental confirmation of the symmetric sintering behavior under compressive/tensile loading combined with electrical field. <i>Scripta Materialia</i> , 2020 , 187, 137-141	5.6	2
222	Metal-Supported Solid Oxide Fuel Cells with Exceptionally High Power Density for Range Extender Systems. <i>Cell Reports Physical Science</i> , 2020 , 1, 100072	6.1	24
221	On the origin of non-monotonic variation of the lattice parameters of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ with lithiation/delithiation: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13832-13841	13	5
220	Investigation of LSM-8YSZ cathode within an all ceramic SOFC. Part I: Chemical interactions. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3608-3617	6	3
219	The use of tungsten yarns in the production for W f /W. <i>Physica Scripta</i> , 2020 , T171, 014061	2.6	2
218	Application of Electric Current-Assisted Sintering Techniques for the Processing of Advanced Materials. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000051	3.5	24
217	Phase and microstructural characterizations for Ce _{0.8} Gd _{0.2} O ₂ -FeCo ₂ O ₄ dual phase oxygen transport membranes. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5646-5652	6	12
216	Short SiC fiber/Ti ₃ SiC ₂ MAX phase composites: Fabrication and creep evaluation. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 7072-7081	3.8	6
215	Compressive creep of SiC whisker/Ti ₃ SiC ₂ composites at high temperature in air. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5952-5965	3.8	6
214	Resistance of pure and mixed rare earth silicates against calcium-magnesium-aluminosilicate (CMAS): A comparative study. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 7056-7071	3.8	11
213	In situ investigation of atmospheric plasma-sprayed MnCoBeO by synchrotron X-ray nano-tomography. <i>Journal of Materials Science</i> , 2020 , 55, 12725-12736	4.3	0
212	Micromechanical Characterization of Ce _{0.8} Gd _{0.2} O ₂ -FeCo ₂ O ₄ Dual Phase Oxygen Transport Membranes. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901558	3.5	4

211	Thermal Spray Processes for the Repair of Gas Turbine Components. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901237	3.5	6
210	Current-rate flash sintering of gadolinium doped ceria: Microstructure and Defect generation. <i>Acta Materialia</i> , 2020 , 189, 145-153	8.4	32
209	Manufacturing cost model for planar 5 kWel SOFC stacks at Forschungszentrum Jülich. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8015-8030	6.7	12
208	Electronic conductivity in gadolinium doped ceria under direct current as a trigger for flash sintering. <i>Scripta Materialia</i> , 2020 , 179, 55-60	5.6	37
207	Microstructure, ionic conductivity and mechanical properties of tape-cast Li _{1.5} Al _{0.5} Ti _{1.5} P ₃ O ₁₂ electrolyte sheets. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1975-1982	6	7
206	Selection of cathode materials for forsterite supported solid oxide fuel cells [Part I: Materials interactions. <i>Journal of Power Sources</i> , 2020 , 451, 227607	8.9	4
205	Selection of cathode materials for forsterite-supported solid oxide fuel cells [Part II: Electro-catalytic activity. <i>Journal of Power Sources</i> , 2020 , 451, 227811	8.9	1
204	Na ⁺ ion mobility in Na ₃ +Sc ₂ (SiO ₄) (PO ₄) ₃ [0.1] <i>Solid State Ionics</i> , 2020 , 348, 115277	3.3	3
203	Investigation of LSM/8YSZ cathode within an all-ceramic SOFC, Part II: Optimization of performance and co-sinterability. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3618-3631	6	3
202	Thermal cycling performances of multilayered yttria-stabilized zirconia/gadolinium zirconate thermal barrier coatings. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2048-2061	3.8	12
201	The grain-boundary resistance of CeO ₂ ceramics: A combined microscopy-spectroscopy-simulation study of a dilute solution. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1755-1764	3.8	5
200	Comparison of solid oxide fuel cell (SOFC) electrolyte materials for operation at 500 °C. <i>Solid State Ionics</i> , 2020 , 344, 115138	3.3	40
199	Ceramics for electrochemical storage 2020 , 549-709		10
198	Viscous Poisson's ratio, bulk and shear viscosity during electrical field assisted sintering of polycrystalline ceria. <i>Scripta Materialia</i> , 2020 , 178, 240-243	5.6	8
197	Tuning the Microstructure and Thickness of Ceramic Layers with Advanced Coating Technologies Using Zirconia as an Example. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000529	3.5	3
196	Dendrite-tolerant all-solid-state sodium batteries and an important mechanism of metal self-diffusion. <i>Journal of Power Sources</i> , 2020 , 476, 228666	8.9	10
195	Mechanical properties of BaCe _{0.65} Zr _{0.2} Y _{0.15} O _{3-δ} -proton-conducting material determined using different nanoindentation methods. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5653-5661	6	5
194	Recycling Strategies for Ceramic All-Solid-State Batteries [Part I: Study on Possible Treatments in Contrast to Li-Ion Battery Recycling. <i>Metals</i> , 2020 , 10, 1523	2.3	6

193	Field-Assisted Sintering/Spark Plasma Sintering of Gadolinium-Doped Ceria with Controlled Re-oxidation for Crack Prevention. <i>Materials</i> , 2020 , 13,	3.5	9
192	Performance of YSZ and Gd ₂ Zr ₂ O ₇ /YSZ double layer thermal barrier coatings in burner rig tests. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 480-490	6	25
191	Effect of AC field on uniaxial viscosity and sintering stress of ceria. <i>Acta Materialia</i> , 2020 , 182, 77-86	8.4	16
190	Crystal structure analysis and high-temperature phase transitions of complex rare-earth perovskite, La ₂ (Al _{1/2} MgTa _{1/2})O ₆ . <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1404-1413	3.8	3
189	Modeling and validation of chemical vapor deposition of tungsten for tungsten fiber reinforced tungsten composites. <i>Surface and Coatings Technology</i> , 2020 , 381, 124745	4.4	7
188	Room-temperature all-solid-state sodium batteries with robust ceramic interface between rigid electrolyte and electrode materials. <i>Nano Energy</i> , 2019 , 65, 104040	17.1	26
187	Screening of Cathode Materials for Inert-Substrate-Supported Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2019 , 91, 1397-1411	1	4
186	YAlO ₃ Novel Environmental Barrier Coating for Al ₂ O ₃ /Al ₂ O ₃ Ceramic Matrix Composites. <i>Coatings</i> , 2019 , 9, 609	2.9	6
185	Determination of sintering stress and bulk viscosity from sinter-forging and X-ray microtomography methods: a Review. <i>Materials Today: Proceedings</i> , 2019 , 16, 42-48	1.4	1
184	Utilization of Bio-Syngas in Solid Oxide Fuel Cell Stacks: Effect of Hydrocarbon Reforming. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F137-F143	3.9	14
183	A garnet structure-based all-solid-state Li battery without interface modification: resolving incompatibility issues on positive electrodes. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 280-291	5.8	81
182	Surface roughening of Al ₂ O ₃ /Al ₂ O ₃ -ceramic matrix composites by nanosecond laser ablation prior to thermal spraying. <i>Journal of Laser Applications</i> , 2019 , 31, 022018	2.1	7
181	Architecture designs for extending thermal cycling lifetime of suspension plasma sprayed thermal barrier coatings. <i>Ceramics International</i> , 2019 , 45, 18471-18479	5.1	15
180	On the role of Debye temperature in the onset of flash in three oxides. <i>Scripta Materialia</i> , 2019 , 170, 81-84	5.6	33
179	Investigation on growth mechanisms of columnar structured YSZ coatings in Plasma Spray-Physical Vapor Deposition (PS-PVD). <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3129-3138	6	15
178	Water vapor corrosion test using supersonic gas velocities. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6850-6862	3.8	5
177	Synthesis of Ti ₃ SiC ₂ MAX phase powder by a molten salt shielded synthesis (MS3) method in air. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3651-3659	6	16
176	Dual-Phase Cathodes for Metal-Supported Solid Oxide Fuel Cells: Processing, Performance, Durability. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F506-F510	3.9	11

175	Topological optimization of patterned silicon anode by finite element analysis. <i>Mechanics Research Communications</i> , 2019 , 97, 63-69	2.2	0
174	High-pressure field assisted sintering of half-cell for all-solid-state battery. <i>Materials Letters</i> , 2019 , 247, 155-158	3.3	17
173	Lanthanum tungstate membranes for H ₂ extraction and CO ₂ utilization: Fabrication strategies based on sequential tape casting and plasma-spray physical vapor deposition. <i>Separation and Purification Technology</i> , 2019 , 219, 100-112	8.3	13
172	High-performance carbon molecular sieve membranes for hydrogen purification and pervaporation dehydration of organic solvents. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7082-7091	13	25
171	Micromechanics of formation and shrinkage of a closed pore in sintering by coupled grain boundary/surface diffusion. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2952-2959	6	2
170	Sintering of a sodium-based NASICON electrolyte: A comparative study between cold, field assisted and conventional sintering methods. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2697-2702	6	21
169	A constitutive model for the sintering of suspension plasma-sprayed thermal barrier coating with vertical cracks. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6202-6212	3.8	4
168	Impact of sodium excess on electrical conductivity of Na ₃ Zr ₂ Si ₂ PO ₁₂ + x Na ₂ O ceramics. <i>Solid State Ionics</i> , 2019 , 336, 57-66	3.3	16
167	Molten salt shielded synthesis of oxidation prone materials in air. <i>Nature Materials</i> , 2019 , 18, 465-470	27	69
166	Microstructure-conductivity relationship of Na ₃ Zr ₂ (SiO ₄) ₂ (PO ₄) ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1057-1070	3.8	18
165	Oxide Dispersion Strengthened Bond Coats with Higher Alumina Content: Oxidation Resistance and Influence on Thermal Barrier Coating Lifetime. <i>Oxidation of Metals</i> , 2019 , 92, 167-194	1.6	6
164	Towards In-Situ Electron Microscopy Studies of Flash Sintering. <i>Ceramics</i> , 2019 , 2, 472-487	1.7	0
163	Thermochemical stability of Fe- and co-functionalized perovskite-type SrTiO ₃ oxygen transport membrane materials in syngas conditions. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4874-4881	6	6
162	Bulk and grain boundary Li-diffusion in dense LiMnO pellets by means of isotope exchange and ToF-SIMS analysis. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26066-26076	3.6	10
161	Environmental Barrier Coatings Made by Different Thermal Spray Technologies. <i>Coatings</i> , 2019 , 9, 784	2.9	12
160	Development of Cathode Contacting for SOFC Stacks. <i>Ceramic Engineering and Science Proceedings</i> , 2019 , 99-111	0.1	4
159	Microstructure and phase evolution of atmospheric plasma sprayed Mn-Co-Fe oxide protection layers for solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 449-460	6	14
158	Superior cyclic life of thermal barrier coatings with advanced bond coats on single-crystal superalloys. <i>Surface and Coatings Technology</i> , 2019 , 361, 150-158	4.4	13

157	Sintering behavior of columnar thermal barrier coatings deposited by axial suspension plasma spraying (SPS). <i>Journal of the European Ceramic Society</i> , 2019 , 39, 482-490	6	19
156	Arrhenius Behavior of the Bulk Na-Ion Conductivity in NaSc(PO) Single Crystals Observed by Microcontact Impedance Spectroscopy. <i>Chemistry of Materials</i> , 2018 , 30, 1776-1781	9.6	14
155	Systematic Investigation on the Influence of Spray Parameters on the Mechanical Properties of Atmospheric Plasma-Sprayed YSZ Coatings. <i>Journal of Thermal Spray Technology</i> , 2018 , 27, 566-580	2.5	16
154	Manipulation of matter by electric and magnetic fields: Toward novel synthesis and processing routes of inorganic materials. <i>Materials Today</i> , 2018 , 21, 527-536	21.8	46
153	Microstructure and anisotropic mechanical properties of freeze dried SrTi _{0.75} Fe _{0.25} O ₃ - Γ For oxygen transport membrane substrates. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2774-2783	6	2
152	Synthesis and characterization of equimolar Al/Y-substituted NASICON solid solution Na _{1+2x+y} Al _x Y _x Zr ₂ Si _y P ₃ O ₁₂ . <i>Solid State Ionics</i> , 2018 , 319, 13-21	3.3	15
151	Comparison between sinter forging and X-ray microtomography methods for determining sintering stress and bulk viscosity. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2053-2058	6	4
150	Advanced crystallographic study of the columnar growth of YZS coatings produced by PS-PVD. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2449-2453	6	24
149	SiC/Hf _y Ta _{1-y} C _x N _{1-x} /C ceramic nanocomposites with Hf _y Ta _{1-y} C _x N _{1-x} -carbon core-shell nanostructure and the influence of the carbon-shell thickness on electrical properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 855-864	7.1	25
148	Impact of Fluorination on Phase Stability, Crystal Chemistry, and Capacity of LiCoMnO ₄ High Voltage Spinel. <i>ACS Applied Energy Materials</i> , 2018 , 1, 715-724	6.1	6
147	Thermal stability of 5 V LiCoMnO ₄ spinels with LiF additive. <i>Solid State Ionics</i> , 2018 , 320, 378-386	3.3	5
146	Reactions of garnet-based solid-state lithium electrolytes with water [A depth-resolved study. <i>Solid State Ionics</i> , 2018 , 320, 259-265	3.3	14
145	High-temperature oxidation and compressive strength of Cr ₂ AlC MAX phase foams with controlled porosity. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 542-552	3.8	22
144	Interaction of a ceria-based anode functional layer with a stabilized zirconia electrolyte: Considerations from a materials perspective. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 739-748 ⁸	3.8	14
143	Sintering resistance of advanced plasma-sprayed thermal barrier coatings with strain-tolerant microstructures. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 5092-5100	6	32
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