

Julian S Dean

List of Publications by Year in descending order

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33
papers

472
citations

759233

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all docs

34
docs citations

34
times ranked

636
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced internal stresses and their relation to FLASH sintering of KNN ceramics. Journal of Materials Chemistry C, 2022, 10, 10916-10925.	5.5	4
2	Resource efficient exploration of ternary phase space to develop multi-layer ceramic capacitors. Acta Materialia, 2021, 207, 116690.	7.9	3
3	Bending badâ€”testing caramel wafer bars (#TestATunnocks). Physics Education, 2021, 56, 055002.	0.5	0
4	Anomalous grain boundary conduction in BiScO ₃ -BaTiO ₃ high temperature dielectrics. Acta Materialia, 2021, 216, 117136.	7.9	10
5	Modelling the particle contact influence on the Joule heating and temperature distribution during FLASH sintering. Journal of the European Ceramic Society, 2020, 40, 1205-1211.	5.7	28
6	Using Metadynamics to Obtain the Free Energy Landscape for Cation Diffusion in Functional Ceramics: Dopant Distribution Control in Rare Earthâ€”Doped BaTiO ₃ . Advanced Functional Materials, 2020, 30, 1905077.	14.9	13
7	Finite element modeling of resistive surface layers by microâ€”contact impedance spectroscopy. Journal of the American Ceramic Society, 2020, 103, 2702-2714.	3.8	0
8	The Role of Particle Contact in Densification of FLASH Sintered Potassium Sodium Niobate. European Journal of Inorganic Chemistry, 2020, 2020, 3720-3728.	2.0	7
9	From insulator to oxide-ion conductor by a synergistic effect from defect chemistry and microstructure: acceptor-doped Bi-excess sodium bismuth titanate Na _{0.5} Bi _{0.51} TiO _{3.015} . Journal of Materials Chemistry A, 2020, 8, 25120-25130.	10.3	33
10	Material and magnetic properties of Sm ₂ (Co, Fe, Cu, Zr) ₁₇ permanent magnets processed by Spark Plasma Sintering. Journal of Alloys and Compounds, 2019, 770, 765-770.	5.5	8
11	Optimizing size and distribution of voids in phenolic resins through the choice of catalyst types. Journal of Applied Polymer Science, 2019, 136, 48249.	2.6	10
12	Three-dimensional virtual microstructure generation of porous polycrystalline ceramics. Ceramics International, 2019, 45, 21647-21656.	4.8	7
13	The Analysis of Impedance Spectra for Coreâ€”Shell Microstructures: Why a Multiformalism Approach is Essential. Advanced Functional Materials, 2019, 29, 1904036.	14.9	13
14	Predicting the energy storage density in poly(methyl methacrylate)/methyl ammonium lead iodide composites. Journal of Applied Physics, 2019, 125, 214103.	2.5	2
15	Mechanism of densification in low-temperature FLASH sintered lead free potassium sodium niobate (KNN) piezoelectrics. Journal of Materials Chemistry C, 2019, 7, 14334-14341.	5.5	27
16	Morphology characterisation of inclusions to predict the breakdown strength in electro-ceramic materials: Microstructure modelling. Ceramics International, 2019, 45, 361-368.	4.8	14
17	Electric field enhancement in ceramic capacitors due to interface amplitude roughness. Journal of the European Ceramic Society, 2019, 39, 1170-1177.	5.7	19
18	High quality factor cold sintered Li ₂ MoO ₄ BaFe ₁₂ O ₁₉ composites for microwave applications. Acta Materialia, 2019, 166, 202-207.	7.9	58

#	ARTICLE	IF	CITATIONS
19	Modeling the influence of two terminal electrode contact geometry and sample dimensions in electro�materials. Journal of the American Ceramic Society, 2019, 102, 3609-3622.	3.8	4
20	Finite element modeling on the effect of intra�granular porosity on the dielectric properties of BaTiO ₃ MLCCs. Journal of the American Ceramic Society, 2018, 101, 1211-1220.	3.8	31
21	Finite element study of the effect of particle interaction on the energy storage density of composite dielectrics. Energy Procedia, 2018, 151, 129-134.	1.8	0
22	Complexities of atomic structure at CdO/MgO and CdO/Al ₂ O ₃ interfaces. Journal of Applied Physics, 2018, 124, .	2.5	2
23	Improved breakdown strength and energy storage density of a Ce doped strontium titanate core by silica shell coating. Journal of Materials Chemistry C, 2018, 6, 9130-9139.	5.5	51
24	How to extract reliable core-volume fractions from core-shell polycrystalline microstructures using cross sectional TEM micrographs. Journal of the European Ceramic Society, 2017, 37, 2795-2801.	5.7	3
25	Design of a bilayer ceramic capacitor with low temperature coefficient of capacitance. Applied Physics Letters, 2016, 109, .	3.3	16
26	A sweeter way of teaching health and safety. Physics Education, 2016, 51, 053006.	0.5	3
27	A resource efficient design strategy to optimise the temperature coefficient of capacitance of BaTiO ₃ -based ceramics using finite element modelling. Journal of Materials Chemistry A, 2016, 4, 6896-6901.	10.3	24
28	Carbon uptake and distribution in Spark Plasma Sintering (SPS) processed Sm(Co, Fe, Cu, Zr) z. Materials Letters, 2016, 171, 14-17.	2.6	20
29	Simulation of Impedance Spectra for Core�Shell Grain Structures Using Finite�Element Modeling. Journal of the American Ceramic Society, 2015, 98, 1925-1931.	3.8	20
30	Simulation of Impedance Spectra for a Full Three�Dimensional Ceramic Microstructure Using a Finite Element Model. Journal of the American Ceramic Society, 2014, 97, 885-891.	3.8	23
31	Kronecker product approximation of demagnetizing tensors for micromagnetics. Journal of Computational Physics, 2010, 229, 2544-2549.	3.8	10
32	Tailoring Domain-Wall Dynamics With Uniaxial Anisotropy in Nanowires. IEEE Transactions on Magnetism, 2009, 45, 4067-4069.	2.1	9
33	Finite element modelling of a magnetostrictive coated cantilever system as a function of magnetic film thickness. , 2006, , .		0