

Julian S Dean

List of Publications by Year in descending order

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33
papers

472
citations

759233

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h-index

713466

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34
all docs

34
docs citations

34
times ranked

636
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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} Ti _{3.015} . Journal of Materials Chemistry A, 2020, 8, 25120-25130.	10.3	33
4	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
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	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
7	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
8	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
9	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
10	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
11	Electric field enhancement in ceramic capacitors due to interface amplitude roughness. Journal of the European Ceramic Society, 2019, 39, 1170-1177.	5.7	19
12	Design of a bilayer ceramic capacitor with low temperature coefficient of capacitance. Applied Physics Letters, 2016, 109, .	3.3	16
13	Morphology characterisation of inclusions to predict the breakdown strength in electro-ceramic materials: Microstructure modelling. Ceramics International, 2019, 45, 361-368.	4.8	14
14	The Analysis of Impedance Spectra for Core-Shell Microstructures: Why a Multiformalism Approach is Essential. Advanced Functional Materials, 2019, 29, 1904036.	14.9	13
15	Using Metadynamics to Obtain the Free Energy Landscape for Cation Diffusion in Functional Ceramics: Dopant Distribution Control in Rare Earth-Doped BaTiO ₃ . Advanced Functional Materials, 2020, 30, 1905077.	14.9	13
16	Kronecker product approximation of demagnetizing tensors for micromagnetics. Journal of Computational Physics, 2010, 229, 2544-2549.	3.8	10
17	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
18	Anomalous grain boundary conduction in BiScO ₃ -BaTiO ₃ high temperature dielectrics. Acta Materialia, 2021, 216, 117136.	7.9	10

#	ARTICLE	IF	CITATIONS
19	Tailoring Domain-Wall Dynamics With Uniaxial Anisotropy in Nanowires. IEEE Transactions on Magnetics, 2009, 45, 4067-4069.	2.1	9
20	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
21	Three-dimensional virtual microstructure generation of porous polycrystalline ceramics. Ceramics International, 2019, 45, 21647-21656.	4.8	7
22	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
23	Modeling the influence of two terminal electrode contact geometry and sample dimensions in electroceramics. Journal of the American Ceramic Society, 2019, 102, 3609-3622.	3.8	4
24	Induced internal stresses and their relation to FLASH sintering of KNN ceramics. Journal of Materials Chemistry C, 2022, 10, 10916-10925.	5.5	4
25	A sweeter way of teaching health and safety. Physics Education, 2016, 51, 053006.	0.5	3
26	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
27	Resource efficient exploration of ternary phase space to develop multi-layer ceramic capacitors. Acta Materialia, 2021, 207, 116690.	7.9	3
28	Complexities of atomic structure at CdO/MgO and CdO/Al ₂ O ₃ interfaces. Journal of Applied Physics, 2018, 124, .	2.5	2
29	Predicting the energy storage density in poly(methyl methacrylate)/methyl ammonium lead iodide composites. Journal of Applied Physics, 2019, 125, 214103.	2.5	2
30	Finite element modelling of a magnetostrictive coated cantilever system as a function of magnetic film thickness. , 2006, , .		0
31	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
32	Finite element modeling of resistive surface layers by microcontact impedance spectroscopy. Journal of the American Ceramic Society, 2020, 103, 2702-2714.	3.8	0
33	Bending bad testing caramel wafer bars (#TestATunnocks). Physics Education, 2021, 56, 055002.	0.5	0