

Stephen

List of Publications by Year in descending order

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31
papers

418
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840776

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752698

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42
all docs

42
docs citations

42
times ranked

331
citing authors

#	ARTICLE	IF	CITATIONS
1	Strontium Zirconate and Strontium Titanate Ceramics for High Voltage Applications: Synthesis, Processing, and Dielectric Properties. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1648-1650.	3.8	90
2	Role of Length Scale on Pressure Increase and Yield of Poly(vinyl butyral)-Barium Titanate-Platinum Multilayer Ceramic Capacitors during Binder Burnout. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2645-2653.	3.8	38
3	The role of thermal and transport properties on the binder burnout of injection-molded ceramic components. <i>Chemical Engineering Journal</i> , 1998, 71, 243-252.	12.7	32
4	Determination of Binder Decomposition Kinetics for Specifying Heating Parameters in Binder Burnout Cycles. <i>Journal of the American Ceramic Society</i> , 2002, 85, 780-786.	3.8	29
5	Pressure Distribution During Binder Burnout in Three-dimensional Porous Ceramic Bodies with Anisotropic Permeability. <i>Journal of Materials Research</i> , 2002, 17, 1434-1440.	2.6	28
6	Plasma Treated Multi-Walled Carbon Nanotubes (MWCNTs) for Epoxy Nanocomposites. <i>Polymers</i> , 2011, 3, 2142-2155.	4.5	24
7	Analytic method for the minimum time for binder removal from three-dimensional porous green bodies. <i>Journal of Materials Research</i> , 2003, 18, 2717-2723.	2.6	23
8	Modeling of the Pressure Distribution in Three-Dimensional Porous Green Bodies during Binder Removal. <i>Journal of the American Ceramic Society</i> , 2003, 86, 234-240.	3.8	22
9	Effect of Decomposition Kinetics and Failure Criteria on Binder-Removal Cycles From Three-Dimensional Porous Green Bodies. <i>Journal of the American Ceramic Society</i> , 2006, 89, 176-183.	3.8	14
10	Determination of the Minimum Time for Binder Removal and Optimum Geometry for Three-Dimensional Porous Green Bodies. <i>Journal of the American Ceramic Society</i> , 2003, 86, 2087-2092.	3.8	13
11	Adsorption and Diffusion Behavior of Ethane and Ethylene in Sol-Gel Derived Microporous Silica. <i>Adsorption</i> , 2005, 11, 491-499.	3.0	13
12	Effects of supercritical extraction on the plasticization of poly(vinyl butyral) and dioctyl phthalate films. <i>Journal of Supercritical Fluids</i> , 2004, 28, 113-120.	3.2	11
13	Minimum Time Heating Cycles for Diffusion-Controlled Binder Removal from Ceramic Green Bodies. <i>Journal of the American Ceramic Society</i> , 2015, 98, 57-65.	3.8	10
14	Heat Transfer in Porous Green Bodies During Binder Removal by Minimum Time Heating Cycles. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1193-1199.	3.8	9
15	Permeability of Green Ceramic Tapes as a Function of Binder Loading. <i>Journal of the American Ceramic Society</i> , 2007, 90, 456-461.	3.8	9
16	Permeability of Laminated Green Ceramic Tapes as a Function of Binder Loading. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1553-1558.	3.8	9
17	Effect of Solids Loading and Dispersant Concentration on Strain Mismatch and Deformation of Slip-Cast Green Bodies. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2274-2280.	3.8	8
18	Effect of porosity on the electrical properties of Y ₂ O ₃ -doped SrTiO ₃ internal boundary layer capacitors. <i>Journal of Applied Physics</i> , 2004, 95, 4310-4315.	2.5	6

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19	Defect Formation during Supercritical Extraction of Binder from Green Ceramic Components. Journal of the American Ceramic Society, 2004, 87, 1254-1258.	3.8	6
20	Analytic Model for the Diffusant Concentration in Ceramic Green Bodies During Diffusion-Controlled Thermal Binder Removal. Journal of the American Ceramic Society, 2013, 96, 2737-2744.	3.8	5
21	Strain-Induced Deformation in Magnesia-Alumina Layered Composites. Journal of the American Ceramic Society, 2005, 88, 2064-2070.	3.8	3
22	Pressure Distribution and Defect Formation in Green Ceramic Bodies During Supercritical Extraction of Binder. Journal of the American Ceramic Society, 2009, 92, 365-370.	3.8	3
23	Evolved gas analysis during sintering of barium titanate. Advances in Applied Ceramics, 2016, 115, 264-271.	1.1	3
24	A process control algorithm for reaction-diffusion minimum time heating cycles for binder removal from green bodies. Journal of the American Ceramic Society, 2019, 102, 1030-1040.	3.8	3
25	Minimum time heating cycles for diffusion-versus permeability-controlled binder removal from ceramic green bodies. Journal of the American Ceramic Society, 2017, 100, 529-538.	3.8	2
26	Effect of Processing on the Microstructure and Induced-Strain Mismatch in Magnesia-Alumina-Layered Composites. Journal of the American Ceramic Society, 2006, 89, 060612075903004-???	3.8	1
27	Models of the Strength of Green Ceramic Bodies as a Function of Binder Content and Temperature. Ceramic Transactions, 2009, , 239-247.	0.1	1
28	Reaction-permeability optimum time heating policy via process control for debinding green ceramic components. Advances in Applied Ceramics, 2020, 119, 150-157.	1.1	1
29	Scaling Analysis of the Effect of Binder Content and Binder Distribution on the Gas Permeability of Porous Green Ceramics. Journal of the American Ceramic Society, 2008, 91, 2150-2155.	3.8	0
30	Modeling of the Pressure in 1-D Green Ceramic Bodies during Depressurization from Conditions of Supercritical Extraction of Binder. Ceramic Transactions, 2009, , 227-237.	0.1	0
31	Modeling, approximation, and time optimal temperature control for binder removal from ceramics. Discrete and Continuous Dynamical Systems - Series B, 2021, .	0.9	0