

# Brian C Riggs

## List of Publications by Year in descending order

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26  
papers

657  
citations

567281

15  
h-index

642732

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

959  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigations on structure, ferroelectric, piezoelectric and energy storage properties of barium calcium titanate (BCT) ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 584, 369-373.	5.5	109
2	Preparation of BaTiO <sub>3</sub> /low melting glass core-shell nanoparticles for energy storage capacitor applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18087-18096.	10.3	77
3	Techno-economic analysis of hybrid PV/T systems for process heat using electricity to subsidize the cost of heat. <i>Applied Energy</i> , 2017, 208, 1370-1378.	10.1	49
4	Core-shell structured poly(glycidyl methacrylate)/BaTiO <sub>3</sub> nanocomposites prepared by surface-initiated atom transfer radical polymerization: A novel material for high energy density dielectric storage. <i>Journal of Polymer Science Part A</i> , 2015, 53, 719-728.	2.3	45
5	A transmissive, spectrum-splitting concentrating photovoltaic module for hybrid photovoltaic-solar thermal energy conversion. <i>Solar Energy</i> , 2016, 137, 585-593.	6.1	45
6	Polymer Nanocomposites for Energy Storage Applications. <i>Materials Today: Proceedings</i> , 2015, 2, 3853-3863.	1.8	42
7	Structure, Ferroelectric, Dielectric and Energy Storage Studies of Ba <sub>0.70</sub> Ca <sub>0.30</sub> TiO <sub>3</sub> , Ba(Zr <sub>0.20</sub> Ti <sub>0.80</sub> )O <sub>3</sub> Ceramic Capacitors. <i>Integrated Ferroelectrics</i> , 2014, 157, 139-146.	0.7	40
8	Laser direct-write based fabrication of a spatially-defined, biomimetic construct as a potential model for breast cancer cell invasion into adipose tissue. <i>Biofabrication</i> , 2017, 9, 025013.	7.1	37
9	Synthesis and characterization of lead-free ternary component BST-BCT-BZT ceramic capacitors. <i>Journal of Advanced Dielectrics</i> , 2014, 04, 1450014.	2.4	36
10	Polymer-ceramic nanocomposites for high energy density applications. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 641-646.	2.4	31
11	Transmissive microfluidic active cooling for concentrator photovoltaics. <i>Applied Energy</i> , 2019, 236, 906-915.	10.1	27
12	Instantaneous photoinitiated synthesis and rapid pulsed photothermal treatment of three-dimensional nanostructured TiO <sub>2</sub> thin films through pulsed light irradiation. <i>Journal of Materials Research</i> , 2017, 32, 1701-1709.	2.6	18
13	Photonic curing of aromatic thiol-ene click dielectric capacitors via inkjet printing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17380-17386.	10.3	17
14	Click-In Ferroelectric Nanoparticles for Dielectric Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 17819-17825.	8.0	17
15	Field testing of a spectrum-splitting transmissive concentrator photovoltaic module. <i>Renewable Energy</i> , 2019, 139, 806-814.	8.9	17
16	Surface modified BaTiO <sub>3</sub> -polystyrene nanocomposites for energy storage. <i>International Journal of Nanotechnology</i> , 2014, 11, 910.	0.2	11
17	Optical Design and Validation of an Infrared Transmissive Spectrum Splitting Concentrator Photovoltaic Module. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 1469-1478.	2.5	10
18	Solar Cogeneration of Electricity with High-Temperature Process Heat. <i>Cell Reports Physical Science</i> , 2020, 1, 100135.	5.6	10

#	ARTICLE	IF	CITATIONS
19	Pulsed photoinitiated fabrication of inkjet printed titanium dioxide/reduced graphene oxide nanocomposite thin films. <i>Nanotechnology</i> , 2018, 29, 315401.	2.6	8
20	Dielectric Properties of UV Cured Thick Film Polymer Networks through High Power Xenon Flash Lamp Curing. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1630, 1.	0.1	3
21	First principles modeling of nanoparticle-polymer surface functionalizations for improved capacitive energy storage. <i>Journal of Materials Science</i> , 2020, 55, 15813-15825.	3.7	3
22	Growth and microstructure of columnar Y-doped SrZrO <sub>3</sub> films deposited on Pt-coated MgO by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	2
23	Pulsed photonic fabrication of nanostructured metal oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	2
24	Thermal characterization of concentrated solar absorbance using resistive heaters. , 2016, , .		1
25	A Hybrid CPV/T System Featuring Transmissive, Spectrum-Splitting Concentrator Photovoltaics. , 2018, , .		0
26	Direct Fluid Cooling of Concentrator Photovoltaics for Hybrid Photovoltaic-Solar Thermal Energy Conversion. , 2019, , .		0