

# Brian C Riggs

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Solar Cogeneration of Electricity with High-Temperature Process Heat. <i>Cell Reports Physical Science</i> , 2020, 1, 100135.	5.6	10
2	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
3	Field testing of a spectrum-splitting transmissive concentrator photovoltaic module. <i>Renewable Energy</i> , 2019, 139, 806-814.	8.9	17
4	Direct Fluid Cooling of Concentrator Photovoltaics for Hybrid Photovoltaic-Solar Thermal Energy Conversion. , 2019, , .		0
5	Transmissive microfluidic active cooling for concentrator photovoltaics. <i>Applied Energy</i> , 2019, 236, 906-915.	10.1	27
6	A Hybrid CPV/T System Featuring Transmissive, Spectrum-Splitting Concentrator Photovoltaics. , 2018, , .		0
7	Pulsed photoinitiated fabrication of inkjet printed titanium dioxide/reduced graphene oxide nanocomposite thin films. <i>Nanotechnology</i> , 2018, 29, 315401.	2.6	8
8	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
9	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
10	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
11	Pulsed photonic fabrication of nanostructured metal oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	2
12	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
13	Thermal characterization of concentrated solar absorbance using resistive heaters. , 2016, , .		1
14	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
15	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
16	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
17	Click-In Ferroelectric Nanoparticles for Dielectric Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 17819-17825.	8.0	17
18	Polymer Nanocomposites for Energy Storage Applications. <i>Materials Today: Proceedings</i> , 2015, 2, 3853-3863.	1.8	42

#	ARTICLE	IF	CITATIONS
19	Polymer-ceramic nanocomposites for high energy density applications. Journal of Sol-Gel Science and Technology, 2015, 73, 641-646.	2.4	31
20	Surface modified BaTiO <sub>3</sub> -polystyrene nanocomposites for energy storage. International Journal of Nanotechnology, 2014, 11, 910.	0.2	11
21	Dielectric Properties of UV Cured Thick Film Polymer Networks through High Power Xenon Flash Lamp Curing. Materials Research Society Symposia Proceedings, 2014, 1630, 1.	0.1	3
22	Investigations on structure, ferroelectric, piezoelectric and energy storage properties of barium calcium titanate (BCT) ceramics. Journal of Alloys and Compounds, 2014, 584, 369-373.	5.5	109
23	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. Integrated Ferroelectrics, 2014, 157, 139-146.	0.7	40
24	Preparation of BaTiO <sub>3</sub> /low melting glass core-shell nanoparticles for energy storage capacitor applications. Journal of Materials Chemistry A, 2014, 2, 18087-18096.	10.3	77
25	Photonic curing of aromatic thiol-ene click dielectric capacitors via inkjet printing. Journal of Materials Chemistry A, 2014, 2, 17380-17386.	10.3	17
26	Synthesis and characterization of lead-free ternary component BST-BCT-BZT ceramic capacitors. Journal of Advanced Dielectrics, 2014, 04, 1450014.	2.4	36