

Paul R Ohodnicki Jr

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,867
citations

236925

25
h-index

289244

40
g-index

62
all docs

62
docs citations

62
times ranked

2766
citing authors

#	ARTICLE	IF	CITATIONS
19	Creating glasswing butterfly-inspired durable antifogging superomniphobic supertransmissive, superclear nanostructured glass through Bayesian learning and optimization. <i>Materials Horizons</i> , 2019, 6, 1632-1642.	12.2	34
20	Electronic structural, optical and phonon lattice dynamical properties of pure- and La-doped SrTiO ₃ : An ab initio thermodynamics study. <i>Journal of Solid State Chemistry</i> , 2017, 256, 239-251.	2.9	32
21	The Effects of Strain-Annealing on Tuning Permeability and Lowering Losses in Fe-Ni-Based Metal Amorphous Nanocomposites. <i>Jom</i> , 2017, 69, 2164-2170.	1.9	31
22	Multi-component optical sensing of high temperature gas streams using functional oxide integrated silica based optical fiber sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 357-365.	7.8	29
23	Sapphire Fiber Optical Hydrogen Sensors for High-Temperature Environments. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 47-50.	2.5	27
24	Zinc-Adeninate Metal-Organic Framework: A Versatile Photoluminescent Sensor for Rare Earth Elements in Aqueous Systems. <i>ACS Sensors</i> , 2019, 4, 1986-1991.	7.8	26
25	Novel silica surface charge density mediated control of the optical properties of embedded optically active materials and its application for fiber optic pH sensing at elevated temperatures. <i>Nanoscale</i> , 2015, 7, 2527-2535.	5.6	25
26	Self-cleaning, high transmission, near unity haze OTS/silica nanostructured glass. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9191-9199.	5.5	23
27	A highly scalable spray coating technique for electrode infiltration: Barium carbonate infiltrated La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} perovskite structured electrocatalyst with demonstrated long term durability. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24978-24988.	7.1	21
28	Understanding three-dimensionally interconnected porous oxide-derived copper electrocatalyst for selective carbon dioxide reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27576-27584.	10.3	21
29	First-Principles Investigations of the Temperature Dependence of Electronic Structure and Optical Properties of Rutile TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 22642-22649.	3.1	18
30	High-temperature stability of silver nanoparticles geometrically confined in the nanoscale pore channels of anodized aluminum oxide for SERS in harsh environments. <i>RSC Advances</i> , 2016, 6, 86930-86937.	3.6	15
31	Shielding of Leakage Flux Induced Losses in High Power, Medium Frequency Transformers. , 2019, , .		12
32	Artificial Intelligent Pattern Recognition for Optical Fiber Distributed Acoustic Sensing Systems Based on Phase-OTDR. , 2018, , .		11
33	Thermal profile shaping and loss impacts of strain annealing on magnetic ribbon cores. <i>Journal of Materials Research</i> , 2018, 33, 2189-2206.	2.6	11
34	Scalable Fabrication of Metal Oxide Functional Materials and Their Applications in High-Temperature Optical Sensing. <i>Jom</i> , 2015, 67, 53-58.	1.9	10
35	Flexible nanoglass with highest combination of transparency and haze for optoelectronic plastic substrates. <i>Nanotechnology</i> , 2018, 29, 42LT01.	2.6	10
36	Theoretical study of the optical and thermodynamic properties of La _x Sr _{1-x} Co _y Fe _{1-y} O _{3-δ} ($x, y = 0, 1$)		10

#	ARTICLE	IF	CITATIONS
37	Soft Magnetic Materials Characterization for Power Electronics Applications and Advanced Data Sheets. , 2019, , .		6
38	Fiber Optical Sensor for Methane Detection Based on Metal-Organic Framework/Silicone Polymer Coating. , 2018, , .		6
39	Ultrafast Laser Enhanced Rayleigh Backscattering on Silica Fiber for Distributed Sensing under Harsh Environment. , 2018, , .		5
40	Wireless CO ₂ SAW Sensors with a Nanoporous ZIF-8 Sensing Layer. , 2018, , .		4
41	Theoretical and experimental investigation of evanescent-wave absorption sensors for extreme temperature applications. Proceedings of SPIE, 2013, , .	0.8	3
42	High spatial resolution fiber optical sensors for simultaneous temperature and chemical sensing for energy industries. , 2017, , .		3
43	Characterization of Interaction between Fe ²⁺ Infiltrates and LSM Backbone in Solid Oxide Fuel Cells. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1701044.	1.8	3
44	Thermally induced emission from hydroxyl groups in fused silica optical fibers. Optical Fiber Technology, 2019, 52, 101951.	2.7	3
45	Optical properties and long-term stability of unclad single crystal sapphire fiber in harsh environments. , 2019, , .		3
46	Block copolymer assisted refractive index engineering of metal oxides for applications in optical sensing. Proceedings of SPIE, 2014, , .	0.8	2
47	Theoretical Investigation of the Electronic, Structural, Optical and Thermodynamic Properties of La _x Sr _{1-x} TiO ₃ (x=0, 0.125, 0.25). ECS Transactions, 2017, 78, 2865-2876.	0.5	2
48	Optical Fiber Sensor-Fused Additive Manufacturing and Its Applications in Residual Stress Measurements in Titanium Parts. , 2016, , .		2
49	Optical Fiber Sensor-Fused Additive Manufacturing and Its Applications in Residual Stress Measurements. , 2017, , .		2
50	3D sub-wavelength refractive index adjusted metal oxides for applications in optical sensing. , 2014, , .		1
51	Fiber Optical Methane Sensors Using Functional Metal Oxide Nanomaterials. , 2016, , .		1
52	Laser heated pedestal growth system commissioning and fiber processing. Proceedings of SPIE, 2016, , .	0.8	1
53	Improvement of light confinement in nanostructured sapphire optical fibers. , 2017, , .		1
54	Accurate Characterization and Emulation of Active Bridge Magnetic Efficiencies with Novel Excitation Circuit. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
55	Embedding Distributed Temperature and Strain Optical Fiber Sensors in Metal Components Using Additive Manufacturing. , 2018, , .		1
56	Vector Brillouin optical time-domain analysis with Raman amplification and optical pulse coding. , 2019, , .		1
57	Ultra-high temperature fiber optical chemical sensors based on nano-porous metal oxides. Proceedings of SPIE, 2015, , .	0.8	0
58	In-Vivo Monitoring of Energy Chemistry and Energy Production with High Spatial Resolution. , 2017, , .		0
59	Fiber Optical Chemical Sensors Rated for 800Â°C Operation. , 2015, , .		0
60	Probing Temperature Gradient inside SOFC using Fiber with Enhanced Rayleigh Scattering Profiles. , 2017, , .		0
61	Multi-point fiber optic sensors for real-time monitoring of the temperature distribution on transformer cores. , 2018, , .		0
62	Detection of Rare-Earth Elements Enhanced by Bio-Metal-Organic Frameworks (MOFs) Using UV LED. , 2019, , .		0