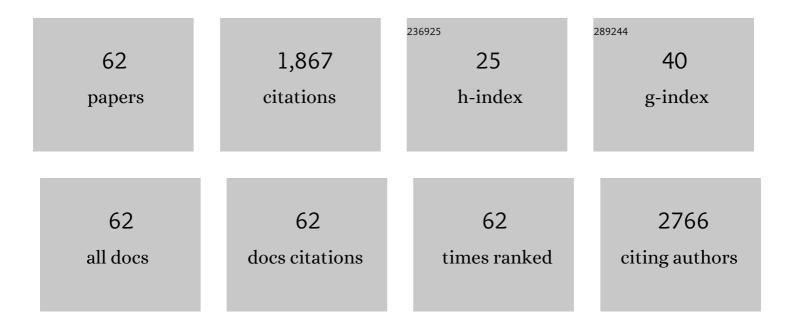
Paul R Ohodnicki Jr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Size-dependent photocatalytic reduction of CO2 with PbS quantum dot sensitized TiO2 heterostructured photocatalysts. Journal of Materials Chemistry, 2011, 21, 13452.	6.7	196
2	SAW Sensors for Chemical Vapors and Gases. Sensors, 2017, 17, 801.	3.8	194
3	Visible light plasmonic heating of Au–ZnO for the catalytic reduction of CO2. Nanoscale, 2013, 5, 6968.	5.6	139
4	Probing active site chemistry with differently charged Au25q nanoclusters (q = â^'1, 0, +1). Chemical Science, 2014, 5, 3151.	7.4	110
5	Corrosion Sensors for Structural Health Monitoring of Oil and Natural Gas Infrastructure: A Review. Sensors, 2019, 19, 3964.	3.8	86
6	Distributed Optical Fiber Sensors with Ultrafast Laser Enhanced Rayleigh Backscattering Profiles for Real-Time Monitoring of Solid Oxide Fuel Cell Operations. Scientific Reports, 2017, 7, 9360.	3.3	84
7	Plasmonic nanocomposite thin film enabled fiber optic sensors for simultaneous gas and temperature sensing at extreme temperatures. Nanoscale, 2013, 5, 9030.	5.6	79
8	Surface Acoustic Wave Devices for Harsh Environment Wireless Sensing. Sensors, 2013, 13, 6910-6935.	3.8	71
9	Perovskite Nanoparticle-Sensitized Ga ₂ O ₃ Nanorod Arrays for CO Detection at High Temperature. ACS Applied Materials & Interfaces, 2016, 8, 8880-8887.	8.0	65
10	<i>In-situ</i> and <i>ex-situ</i> characterization of TiO2 and Au nanoparticle incorporated TiO2 thin films for optical gas sensing at extreme temperatures. Journal of Applied Physics, 2012, 111, .	2.5	63
11	Materials for the photoluminescent sensing of rare earth elements: challenges and opportunities. Journal of Materials Chemistry C, 2020, 8, 7975-8006.	5.5	59
12	First-principles study on the electronic, optical and thermodynamic properties of ABO ₃ (AÂ= La,Sr, B = Fe,Co) perovskites. RSC Advances, 2017, 7, 38798-38804.	3.6	51
13	Giant induced magnetic anisotropy In strain annealed Co-based nanocomposite alloys. Applied Physics Letters, 2012, 101, 102408.	3.3	48
14	High temperature optical sensing of gas and temperature using Au-nanoparticle incorporated oxides. Sensors and Actuators B: Chemical, 2014, 202, 489-499.	7.8	47
15	Synthesis, characterization, and photocatalytic activity of Au–ZnO nanopyramids. Journal of Materials Chemistry A, 2015, 3, 15141-15147.	10.3	45
16	The influence of oxygen vacancy on the electronic and optical properties of ABO _{3â^îſ} (A =) Tj ETQq(0 0 0 rgBT 2.8	/Overlock 10

17	Engineering metal oxide nanostructures for the fiber optic sensor platform. Optics Express, 2014, 22, 2665.	3.4	37
18	Magnetic properties and crystallization kinetics of (Fe100â^'xNix)80Nb4Si2B14 metal amorphous nanocomposites. Scripta Materialia, 2018, 142, 133-137.	5.2	37

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#	Article	IF	CITATIONS
19	Creating glasswing butterfly-inspired durable antifogging superomniphobic supertransmissive, superclear nanostructured glass through Bayesian learning and optimization. Materials Horizons, 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. Journal of Solid State Chemistry, 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. Jom, 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. Sensors and Actuators B: Chemical, 2018, 255, 357-365.	7.8	29
23	Sapphire Fiber Optical Hydrogen Sensors for High-Temperature Environments. IEEE Photonics Technology Letters, 2016, 28, 47-50.	2.5	27
24	Zinc-Adeninate Metal–Organic Framework: A Versatile Photoluminescent Sensor for Rare Earth Elements in Aqueous Systems. ACS Sensors, 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. Nanoscale, 2015, 7, 2527-2535.	5.6	25
26	Self-cleaning, high transmission, near unity haze OTS/silica nanostructured glass. Journal of Materials Chemistry C, 2018, 6, 9191-9199.	5.5	23
27	A highly scalable spray coating technique for electrode infiltration: Barium carbonate infiltrated La0.6Sr0.4Co0.2Fe0.8O3-Ĩ´ perovskite structured electrocatalyst with demonstrated long term durability. International Journal of Hydrogen Energy, 2017, 42, 24978-24988.	7.1	21
28	Understanding three-dimensionally interconnected porous oxide-derived copper electrocatalyst for selective carbon dioxide reduction. Journal of Materials Chemistry A, 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 . Journal of Physical Chemistry C, 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. RSC Advances, 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. Journal of Materials Research, 2018, 33, 2189-2206.	2.6	11
34	Scalable Fabrication of Metal Oxide Functional Materials and Their Applications in High-Temperature Optical Sensing. Jom, 2015, 67, 53-58.	1.9	10
35	Flexible nanograss with highest combination of transparency and haze for optoelectronic plastic substrates. Nanotechnology, 2018, 29, 42LT01.	2.6	10
	Theoretical study of the optical and thermodynamic properties of		

 $a = \frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n}$

#	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 Feâ€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 LaxSr1-xTiO3(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		1

Excitation Circuit., 2019,,.

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#	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	Ο
58	In-Vivo Monitoring of Energy Chemistry and Energy Production with High Spatial Resolution. , 2017, , .		0
59	Fiber Optical Chemical Sensors Rated for 800°C Operation. , 2015, , .		Ο
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, , .		Ο
62	Detection of Rare-Earth Elements Enhanced by Bio-Metal-Organic Frameworks (MOFs) Using UV LED. , 2019, , .		0