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List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50 papers	1,354 citations	21 h-index	36 g-index
62 ext. papers	1,633 ext. citations	5.4 avg, IF	4.75 L-index

#	Paper	IF	Citations
50	Size-dependent photocatalytic reduction of CO ₂ with PbS quantum dot sensitized TiO ₂ heterostructured photocatalysts. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13452		180
49	SAW Sensors for Chemical Vapors and Gases. <i>Sensors</i> , 2017 , 17,	3.8	122
48	Visible light plasmonic heating of Au-ZnO for the catalytic reduction of CO ₂ . <i>Nanoscale</i> , 2013 , 5, 6968-7477	7.7	117
47	Probing active site chemistry with differently charged Au ₂₅ q nanoclusters (q = -1, 0, +1). <i>Chemical Science</i> , 2014 , 5, 3151	9.4	86
46	Plasmonic nanocomposite thin film enabled fiber optic sensors for simultaneous gas and temperature sensing at extreme temperatures. <i>Nanoscale</i> , 2013 , 5, 9030-9	7.7	65
45	Distributed Optical Fiber Sensors with Ultrafast Laser Enhanced Rayleigh Backscattering Profiles for Real-Time Monitoring of Solid Oxide Fuel Cell Operations. <i>Scientific Reports</i> , 2017 , 7, 9360	4.9	54
44	In-situ and ex-situ characterization of TiO ₂ and Au nanoparticle incorporated TiO ₂ thin films for optical gas sensing at extreme temperatures. <i>Journal of Applied Physics</i> , 2012 , 111, 064320	2.5	52
43	Surface acoustic wave devices for harsh environment wireless sensing. <i>Sensors</i> , 2013 , 13, 6910-35	3.8	47
42	Perovskite Nanoparticle-Sensitized Ga ₂ O ₃ Nanorod Arrays for CO Detection at High Temperature. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8880-7	9.5	46
41	Synthesis, characterization, and photocatalytic activity of Au/ZnO nanopyramids. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15141-15147	13	42
40	Giant induced magnetic anisotropy in strain annealed Co-based nanocomposite alloys. <i>Applied Physics Letters</i> , 2012 , 101, 102408	3.4	41
39	Corrosion Sensors for Structural Health Monitoring of Oil and Natural Gas Infrastructure: A Review. <i>Sensors</i> , 2019 , 19,	3.8	40
38	High temperature optical sensing of gas and temperature using Au-nanoparticle incorporated oxides. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 489-499	8.5	39
37	First-principles study on the electronic, optical and thermodynamic properties of ABO ₃ (A = La, Sr, B = Fe, Co) perovskites. <i>RSC Advances</i> , 2017 , 7, 38798-38804	3.7	32
36	Materials for the photoluminescent sensing of rare earth elements: challenges and opportunities. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7975-8006	7.1	31
35	Engineering metal oxide nanostructures for the fiber optic sensor platform. <i>Optics Express</i> , 2014 , 22, 2665-74	3.3	30
34	Magnetic properties and crystallization kinetics of (Fe _{100-x} Ni _x) ₈₀ Nb ₄ Si ₂ B ₁₄ metal amorphous nanocomposites. <i>Scripta Materialia</i> , 2018 , 142, 133-137	5.6	27

33	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	2.1	26
32	The influence of oxygen vacancy on the electronic and optical properties of ABO (A = La, Sr, B = Fe, Co) perovskites. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20454-20462	3.6	25
31	Sapphire Fiber Optical Hydrogen Sensors for High-Temperature Environments. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 47-50	2.2	24
30	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, 2527-35	7.7	22
29	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	8.5	21
28	Creating glasswing butterfly-inspired durable antifogging superomniphobic supertransmissive, superclear nanostructured glass through Bayesian learning and optimization. <i>Materials Horizons</i> , 2019 , 6, 1632-1642	14.4	17
27	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	3.3	16
26	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	13	16
25	Zinc-Adeninate Metal-Organic Framework: A Versatile Photoluminescent Sensor for Rare Earth Elements in Aqueous Systems. <i>ACS Sensors</i> , 2019 , 4, 1986-1991	9.2	15
24	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	6.7	15
23	Self-cleaning, high transmission, near unity haze OTS/silica nanostructured glass. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9191-9199	7.1	14
22	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	3.7	13
21	Flexible nanoglass with highest combination of transparency and haze for optoelectronic plastic substrates. <i>Nanotechnology</i> , 2018 , 29, 42LT01	3.4	9
20	Thermal profile shaping and loss impacts of strain annealing on magnetic ribbon cores. <i>Journal of Materials Research</i> , 2018 , 33, 2189-2206	2.5	9
19	Scalable Fabrication of Metal Oxide Functional Materials and Their Applications in High-Temperature Optical Sensing. <i>Jom</i> , 2015 , 67, 53-58	2.1	9
18	Artificial Intelligent Pattern Recognition for Optical Fiber Distributed Acoustic Sensing Systems Based on Phase-OTDR 2018 ,		6
17	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	3.8	6
16	Fiber Optical Sensor for Methane Detection Based on Metal-Organic Framework/Silicone Polymer Coating 2018 ,		5

15	Theoretical study of the optical and thermodynamic properties of LaSrCoFeO ($x/y = 0.25, 0.5, 0.75$) perovskites. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26117-26122	3.6	5
14	High spatial resolution fiber optical sensors for simultaneous temperature and chemical sensing for energy industries 2017 ,		3
13	Theoretical and experimental investigation of evanescent-wave absorption sensors for extreme temperature applications 2013 ,		3
12	Shielding of Leakage Flux Induced Losses in High Power, Medium Frequency Transformers 2019 ,		3
11	Wireless CO2 SAW Sensors with a Nanoporous ZIF-8 Sensing Layer 2018 ,		3
10	Thermally induced emission from hydroxyl groups in fused silica optical fibers. <i>Optical Fiber Technology</i> , 2019 , 52, 101951	2.4	2
9	Theoretical Investigation of the Electronic, Structural, Optical and Thermodynamic Properties of $\text{La}_x\text{Sr}_{1-x}\text{TiO}_3$ ($x=0, 0.125, 0.25$). <i>ECS Transactions</i> , 2017 , 78, 2865-2876	1	2
8	Optical properties and long-term stability of unclad single crystal sapphire fiber in harsh environments 2019 ,		2
7	Characterization of Interaction between Fe-Infiltrates and LSM Backbone in Solid Oxide Fuel Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1701044	1.6	2
6	Improvement of light confinement in nanostructured sapphire optical fibers 2017 ,		1
5	Laser heated pedestal growth system commissioning and fiber processing 2016 ,		1
4	3D sub-wavelength refractive index adjusted metal oxides for applications in optical sensing 2014 ,		1
3	Optical Fiber Sensor-Fused Additive Manufacturing and Its Applications in Residual Stress Measurements in Titanium Parts 2016 ,		1
2	Optical Fiber Sensor-Fused Additive Manufacturing and Its Applications in Residual Stress Measurements 2017 ,		1
1	Soft Magnetic Materials Characterization for Power Electronics Applications and Advanced Data Sheets 2019 ,		1