

# Rizwan Raza

## List of Publications by Year in descending order

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245  
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61984

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60623

81  
g-index

265  
all docs

265  
docs citations

265  
times ranked

7611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode Materials for Fuel Cells. , 2022, , 341-356.		6
2	Influence of Sintering Temperature on the Structural, Morphological, and Electrochemical Properties of NiO-YSZ Anode Synthesized by the Autocombustion Route. Metals, 2022, 12, 219.	2.3	3
3	Preparation of composite cathode material by using the extracted lead (Pb) of waste lead acid battery for LT-SOFC. Ceramics International, 2022, 48, 19681-19687.	4.8	6
4	Graphene-Oxide-Based Fluoro- and Chromo-Genic Materials and Their Applications. Molecules, 2022, 27, 2018.	3.8	5
5	Co-doped cerium oxide $\text{Fe}_{0.25}\text{-xMnxCe}_{0.75}\text{O}_{2-\delta}$ as a composite cathode material for IT-SOFC. Journal of Alloys and Compounds, 2022, 906, 164319.	5.5	9
6	Electrochemical Investigation of PANI:PPy/AC and PANI:PEDOT/AC Composites as Electrode Materials in Supercapacitors. Polymers, 2022, 14, 1976.	4.5	12
7	Recent advance in physical description and material development for single component SOFC: A mini-review. Chemical Engineering Journal, 2022, 444, 136533.	12.7	50
8	Quantum mechanical interpretation and analysis of perovskite material based single layer fuel cells (SLFCs). International Journal of Hydrogen Energy, 2021, 46, 9957-9967.	7.1	1
9	Evaluation of densification effects on the properties of 8Åmol % yttria stabilized zirconia electrolyte synthesized by cost effective coprecipitation route. Ceramics International, 2021, 47, 2857-2863.	4.8	15
10	Electrochemical evaluation of mixed ionic electronic perovskite cathode $\text{LaNi}_{1-x}\text{Co}_x\text{O}_{3-\delta}$ for IT-SOFC synthesized by high temperature decomposition. International Journal of Hydrogen Energy, 2021, 46, 10448-10456.	7.1	29
11	Evaluation of $\text{BaCo}_{0.4}\text{Fe}_{0.4}\text{Zr}_{0.2}\text{Ni}_x\text{O}_{3-\delta}$ perovskite cathode using nickel as a sintering aid for IT-SOFC. RSC Advances, 2021, 11, 14475-14483.		
12	Engineering the performance of negative electrode for supercapacitor by polyaniline coated $\text{Fe}_3\text{O}_4$ nanoparticles enables high stability up to 25,000 cycles. International Journal of Hydrogen Energy, 2021, 46, 9976-9987.	7.1	24
13	Studies of electrical and optical properties of cadmium doped zinc oxide for energy conversion devices. Fuel Cells, 2021, 21, 164-171.	2.4	3
14	Synthesis of Novel (Be,Mg,Ca,Sr,Zn,Ni) $_3\text{O}_4$ High Entropy Oxide with Characterization of Structural and Functional Properties and Electrochemical Applications. Journal of Electrochemical Science and Technology, 2021, 12, 112-125.	2.2	9
15	Design principle and assessing the correlations in Sb-doped $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{FeO}_{3-\delta}$ perovskite oxide for enhanced oxygen reduction catalytic performance. Journal of Catalysis, 2021, 395, 168-177.	6.2	44
16	Junction and energy band on novel semiconductor-based fuel cells. IScience, 2021, 24, 102191.	4.1	45
17	Catalytic Effect of Silicon Carbide on the Composite Anode of Fuel Cells. ACS Applied Energy Materials, 2021, 4, 6436-6444.	5.1	2
18	Morphology controlled NiO nanostructures as fluorescent quenchers for highly sensitive aptamer-based FRET detection of ochratoxin A. Applied Surface Science, 2021, 566, 150647.	6.1	11

#	ARTICLE	IF	CITATIONS
19	Electrochemical investigation of LiMn <sub>2</sub> O <sub>4</sub> /asphalt and LiMn <sub>2</sub> O <sub>4</sub> /bituminous coal based cathode composites for efficient lithium-ion battery. <i>Materials Letters</i> , 2021, 302, 130275.	2.6	11
20	Promoted electrocatalytic activity and ionic transport simultaneously in dual functional Ba <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>0.8</sub> Sb <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> -Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2-<math>\delta</math></sub> heterostructure. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120503.	20.2	78
21	Semiconductor Electrochemistry for Clean Energy Conversion and Storage. <i>Electrochemical Energy Reviews</i> , 2021, 4, 757-792.	25.5	77
22	Structural and Electrical Study of Boron Doped Ceria Ceramics Electrolytes for SOFC. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	2.1	0
23	Electrochemical Investigations of BaCe <sub>0.7-x</sub> Sm <sub>x</sub> Zr <sub>0.2</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> Sintered at a Low Sintering Temperature as a Perovskite Electrolyte for IT-SOFCs. <i>Sustainability</i> , 2021, 13, 12595.	3.2	9
24	Ternary Alkali Carbonates Effect on Electrochemical Characterization of Nanocomposite Calcium-Doped Ceria Electrolytes (LNK-CDC) for SOFC. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	2.1	4
25	The effect of calcination temperature on the properties of Ni-SDC cermet anode. <i>Ceramics International</i> , 2020, 46, 2780-2785.	4.8	20
26	Evaluation of BaZr <sub>0.8</sub> X <sub>0.2</sub> (X= Y, Gd, Sm) proton conducting electrolytes sintered at low temperature for IT-SOFC synthesized by a cost effective combustion method. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152389.	5.5	43
27	The influence of activated carbon as an additive in anode materials for low temperature solid oxide fuel cells. <i>Ceramics International</i> , 2020, 46, 592-597.	4.8	7
28	Electrochemical characterization of polymer electrolyte membrane fuel cells and polarization curve analysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 24093-24107.	7.1	25
29	Influence of annealing temperature on the physical and photoelectric properties of Gd/Fe <sub>1.727</sub> Sn <sub>0.205</sub> O <sub>3</sub> nanoparticles for solid oxides fuel cell application. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 98-108.	2.4	8
30	Orange Peel Derived Ca <sup>2+</sup> Dots Decorated CuO Nanorods for the Selective Monitoring of Dopamine from Deboned Chicken. <i>Electroanalysis</i> , 2020, 32, 11-18.	2.9	23
31	B-Site Doping in Lanthanum Cerate Nanomaterials for Water Electrocatalysis. <i>Journal of the Electrochemical Society</i> , 2020, 167, 026503.	2.9	13
32	Structural and electrochemical characterization of low-cost Li <sub>x</sub> Cu <sub>1-x</sub> Co <sub>y</sub> Fe <sub>1-y</sub> O <sub>3-<math>\delta</math></sub> cathode material for intermediate temperature solid oxide fuel cell. <i>Ceramics International</i> , 2020, 46, 10348-10355.	4.8	9
33	Functional ceria-based nanocomposites for advanced low-temperature (300–600 °C) solid oxide fuel cell: A comprehensive review. <i>Materials Today Energy</i> , 2020, 15, 100373.	4.7	48
34	Catalytic study of efficient nanocomposites {Ni <sub>0.5</sub> Zn <sub>0.5</sub> <sup>x</sup> Cex <sub>-oxides</sub> electrodes} for natural gas-fed fuel cells. <i>Materials Research Express</i> , 2020, 7, 015508.	1.6	2
35	Multioxide phase-based nanocomposite electrolyte (M@SDC where M= Zn <sup>2+</sup> / Ba <sup>2+</sup> / La <sup>3+</sup> /Zr <sup>2+</sup> /Al <sup>3+</sup> ) materials. <i>Ceramics International</i> , 2020, 46, 6882-6888.	4.8	4
36	Tailoring the ions and bandgaps in a novel semi-ionic energy conversion device for electrochemical performance. <i>Materials Today Energy</i> , 2020, 18, 100536.	4.7	3

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37	Synthesis and characterization of poly (2-aminoethylacrylamido-2-methylpropane sulfonic acid functionalized graphene oxide embedded electrolyte membrane using DOE for PEMFC). International Journal of Energy Research, 2020, 44, 10354-10377.	4.5	3
38	The robust catalysts (Ni-doped ceria and Zn-doped ceria, $x=0.1$ and $0.3$ ) for efficient natural gas reforming in solid oxide fuel cells. Electrochimica Acta, 2020, 361, 137033.	5.2	3
39	Current State and Future Prospects for Electrochemical Energy Storage and Conversion Systems. Energies, 2020, 13, 5847.	3.1	58
40	Electrochemical Analysis of a Titanate-Based Anode for Direct Carbon Fuel Cells. ACS Applied Energy Materials, 2020, 3, 9182-9189.	5.1	2
41	Superionic Conductivity in Ceria-Based Heterostructure Composites for Low-Temperature Solid Oxide Fuel Cells. Nano-Micro Letters, 2020, 12, 178.	27.0	29
42	Recycling of lead from lead acid battery to form composite material as an anode for low temperature solid oxide fuel cell. Materials Today Energy, 2020, 16, 100418.	4.7	4
43	Development of a fluorescence immunoassay based on X-Ti-Zn nanocomposite for the detection of MUC1 biomarker. Sensors and Actuators B: Chemical, 2020, 320, 128413.	7.8	7
44	Design of 1kW high temperature PEM fuel cell system and performance analysis under different operating conditions. Current Applied Physics, 2020, , .	2.4	3
45	Synthesis of PEDOT: PPy/AC composite as an electrode for supercapacitor. Journal of Materials Science: Materials in Electronics, 2020, 31, 13597-13609.	2.2	17
46	Development of recoverable magnetic mesoporous carbon adsorbent for removal of methyl blue and methyl orange from wastewater. Journal of Environmental Chemical Engineering, 2020, 8, 104220.	6.7	80
47	Modeling and simulation of planar SOFC to study the electrochemical properties. Current Applied Physics, 2020, 20, 660-672.	2.4	23
48	Design and Modeling of a Fuel Cell System Using Biomass Feedstock as a Biofuel. Fuel Cells, 2020, 20, 89-97.	2.4	0
49	Cobalt free $\text{La}_x\text{Sr}_{1-x}\text{Fe}_{1-y}\text{Cu}_y\text{O}_{3-\delta}$ ( $x=0.54, 0.8, y=0.2, 0.4$ ) perovskite structured cathode for SOFC. Ceramics International, 2020, 46, 18208-18215.	4.8	17
50	Effect of sintering temperature on properties of LiNiCuZn-Oxide: a potential anode for solid oxide fuel cell. Materials Research Express, 2019, 6, 105505.	1.6	3
51	Nanostructured anode materials for low temperature solid oxide fuel cells: Synthesis and electrochemical characterizations. Ceramics International, 2019, 45, 21688-21697.	4.8	6
52	Electrochemical investigation of cubic structured Fe-doped-SrCoO <sub>3</sub> nano-structured cathode for SOFC synthesized via sol-gel route. Materials Research Express, 2019, 6, 095531.	1.6	6
53	Tuning the Energy Band Structure at Interfaces of the SrFe <sub>0.75</sub> Ti <sub>0.25</sub> O <sub>3</sub> Sm <sub>0.25</sub> Ce <sub>0.75</sub> O <sub>2</sub> Heterostructure for Fast Ionic Transport. ACS Applied Materials & Interfaces, 2019, 11, 38737-38745.	2.0	97
54	Pyridyl Azo-Based Progelator in Selective Sensing of Hg <sup>2+</sup> and Ag <sup>+</sup> Ions via Sol to Gel Conversion. ChemistrySelect, 2019, 4, 11564-11571.	1.5	10

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55	An efficient carbon resistant composite Ni <sub>0.6</sub> Zn <sub>0.4</sub> O <sub>2</sub> - $\gamma$ -GDC anode for biogas fuelled solid oxide fuel cell. <i>Journal of Power Sources</i> , 2019, 438, 227042.	7.8	15
56	Heteroatom doped high porosity carbon nanomaterials as electrodes for energy storage in electrochemical capacitors: A review. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 341-352.	3.1	104
57	Graphene Incorporated Nanocomposite Anode for Low Temperature SOFCs. <i>Journal of Electronic Materials</i> , 2019, 48, 7507-7514.	2.2	8
58	An ultra-high energy density flexible asymmetric supercapacitor based on hierarchical fabric decorated with 2D bimetallic oxide nanosheets and MOF-derived porous carbon polyhedra. <i>Journal of Materials Chemistry A</i> , 2019, 7, 946-957.	10.3	242
59	Promising electrochemical study of titanate based anodes in direct carbon fuel cell using walnut and almond shells biochar fuel. <i>Journal of Power Sources</i> , 2019, 434, 126679.	7.8	27
60	Structural and electrochemical studies of microwave sintered nanocomposite electrolytes for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10964-10970.	7.1	8
61	Analysis of multilayer based TiO <sub>2</sub> and ZnO photoanodes for dye-sensitized solar cells. <i>Materials Research Express</i> , 2019, 6, 075902.	1.6	13
62	Using light to control the inhibition of Karstedt's catalyst. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1253-1256.	4.5	15
63	Synthesis of mesoporous defective graphene-nanosheets in a space-confined self-assembled nanoreactor: Highly efficient capacitive energy storage. <i>Electrochimica Acta</i> , 2019, 305, 517-527.	5.2	45
64	Electrochemical investigation of multi-fuel based low temperature nano-composite anode for solid oxide fuel cell. <i>Journal of Power Sources</i> , 2019, 425, 147-152.	7.8	19
65	Highly conducting perovskite structured (M-SrCoFe-O <sub>3</sub> - $\gamma$ , M <sup>2+</sup> = Ce, Ba) cathode for solid oxide fuel cell. <i>Journal of Alloys and Compounds</i> , 2019, 791, 248-254.	5.5	11
66	Synthesis and characterization of co-doped ceria-based electrolyte material for low temperature solid oxide fuel cell. <i>Ceramics International</i> , 2019, 45, 10330-10333.	4.8	19
67	A modeling approach for low-temperature SOFC-based micro-combined heat and power systems. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950001.	2.0	12
68	Achieving high rate and high energy density in an all-solid-state flexible asymmetric pseudocapacitor through the synergistic design of binder-free 3D ZnCo <sub>2</sub> O <sub>4</sub> nano polyhedra and 2D layered Ti <sub>3</sub> C <sub>2</sub> TX-MXenes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24543-24556.	10.3	64
69	Evaluation of Baseline Cardiac Function by Echocardiography and its Association With Nutritional Status in Pediatric Cancer Patients at The Indus Hospital in Karachi, Pakistan. <i>Journal of Pediatric Hematology/Oncology</i> , 2019, 41, e388-e394.	0.6	2
70	Synthesis and characterization of multiwalled carbon nanotubes supported La <sub>x</sub> Ca <sub>1-x</sub> MnO <sub>3</sub> (x = 0.2). <i>Tj ETQq0 0 0 1,6 BT /Overlock 10 T</i>		
71	Preface to the Special Issue on "The 2nd International Conference on Alternative Fuels and Energy: Future and Challenges (ICAFE 2017), 23rd-25th October 2017, Daegu, Republic of Korea". <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2079-2080.	7.1	0
72	Fabrication of high performance low temperature solid oxide fuel cell based on La <sub>0.1</sub> Sr <sub>0.9</sub> Co <sub>0.2</sub> Zn <sub>0.8</sub> O <sub>5</sub> - $\gamma$ cathode. <i>Materials Letters</i> , 2019, 238, 179-182.	2.6	4

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73	Structural and electrochemical study of Ba <sub>0.15</sub> Cu <sub>0.15</sub> Ni <sub>0.10</sub> Zn <sub>0.60</sub> oxide anode for low temperature solid oxide fuel cell. <i>Journal of Alloys and Compounds</i> , 2019, 780, 653-659.	5.5	24
74	Tri-doped ceria (M <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2-<math>\hat{\imath}</math></sub> , M= Sm <sub>0.1</sub> , Ca <sub>0.05</sub> , Gd <sub>0.05</sub> ) electrolyte for hydrogen and ethanol-based fuel cells. <i>Journal of Alloys and Compounds</i> , 2019, 773, 548-554.	5.5	15
75	Comparative electrochemical investigation of zinc based nano-composite anode materials for solid oxide fuel cell. <i>Ceramics International</i> , 2019, 45, 1077-1083.	4.8	20
76	$\hat{\imath}$ -Alkoxyalkyl Triphenylphosphonium Salts: Synthesis and Reactions. <i>Current Organic Chemistry</i> , 2019, 23, 1738-1755.	1.6	4
77	Synthesize and characterization of ceria based nano-composite materials for low temperature solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6310-6317.	7.1	23
78	Perovskite SrFe <sub>1-x</sub> Ti <sub>x</sub> O <sub>3-<math>\hat{\imath}</math></sub> ( $x \in \{0.1\}$ ) cathode for low temperature solid oxide fuel cell. <i>Ceramics International</i> , 2018, 44, 10266-10272.	4.8	41
79	Tribological performance of polycrystalline tantalum-carbide-incorporated diamond films on silicon substrates. <i>Physica B: Condensed Matter</i> , 2018, 537, 277-282.	2.7	2
80	Enhanced thermoelectric properties in Ge-doped and single-filled skutterudites prepared by unique melt-spinning method. <i>Ceramics International</i> , 2018, 44, 12610-12614.	4.8	10
81	A potential electrolyte (Ce <sub>1-x</sub> CaxO <sub>2-<math>\hat{\imath}</math></sub> ) for fuel cells: Theoretical and experimental study. <i>Ceramics International</i> , 2018, 44, 12676-12683.	4.8	12
82	An efficient protocol for the synthesis of highly sensitive indole imines utilizing green chemistry: optimization of reaction conditions. <i>Molecular Diversity</i> , 2018, 22, 709-722.	3.9	4
83	Alkaline earth metal and samarium co-doped ceria as efficient electrolytes. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	27
84	Effect of Alkali Carbonates (Single, Binary, and Ternary) on Doped Ceria: A Composite Electrolyte for Low-Temperature Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 806-818.	8.0	40
85	Comparative study of Ce <sub>0.80</sub> Sm <sub>0.20</sub> Ba <sub>0.80</sub> Y <sub>0.20</sub> O <sub>3-<math>\hat{\imath}</math></sub> (YB-SDC) electrolyte by various chemical synthesis routes. <i>Results in Physics</i> , 2018, 8, 780-784.	4.1	3
86	Electrochemical and thermal characterization of doped ceria electrolyte with lanthanum and zirconium. <i>Ceramics International</i> , 2018, 44, 6493-6499.	4.8	22
87	Novel vinyl-modified sepiolite-based polymer nanocomposites: synthesis and characterization. <i>Iranian Polymer Journal (English Edition)</i> , 2018, 27, 413-422.	2.4	8
88	Experimental and physical approaches on a novel semiconducting-ionic membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12756-12764.	7.1	17
89	Advances and significance of solar reflectors in solar energy technology in Pakistan. <i>Energy and Environment</i> , 2018, 29, 435-455.	4.6	21
90	Efficient Tuning of Optical Properties and Morphology of Mesoscopic CdS via a Facile Route. <i>Journal of Electronic Materials</i> , 2018, 47, 3701-3708.	2.2	3

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91	An efficient Sm and Ge co-doped ceria nanocomposite electrolyte for low temperature solid oxide fuel cells. <i>Ceramics International</i> , 2018, 44, 170-174.	4.8	32
92	Dosimetric Chromogenic Probe for Selective Detection of Sulfide via Sol-Gel Methodology. <i>ACS Omega</i> , 2018, 3, 17319-17325.	3.5	9
93	Development of a fast CE method for high throughput screening of nucleotidase inhibitors. <i>Electrophoresis</i> , 2018, 39, 2612-2618.	2.4	8
94	In Vitro Cytotoxicity and Morphological Assessments of GO-ZnO against the MCF-7 Cells: Determination of Singlet Oxygen by Chemical Trapping. <i>Nanomaterials</i> , 2018, 8, 539.	4.1	25
95	High energy density hybrid supercapacitor based on 3D mesoporous cuboidal Mn <sub>2</sub> O <sub>3</sub> and MOF-derived porous carbon polyhedrons. <i>Electrochimica Acta</i> , 2018, 282, 1-9.	5.2	54
96	Electrochemical study of composite materials for coal-based direct carbon fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12900-12908.	7.1	16
97	Electrochemical investigations of cobalt-free perovskite cathode material for intermediate temperature solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10416-10422.	7.1	25
98	Charge separation and transport in La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> and ion-doping ceria heterostructure material for new generation fuel cell. <i>Nano Energy</i> , 2017, 37, 195-202.	16.0	115
99	Nanocomposite BaZr <sub>0.7</sub> Sm <sub>0.1</sub> Y <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> /La <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> materials for single layer fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22280-22287.	7.1	6
100	Analysis of a perovskite-ceria functional layer-based solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17536-17543.	7.1	7
101	Electrochemical investigation of mixed metal oxide nanocomposite electrode for low temperature solid oxide fuel cell. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750193.	2.0	2
102	Solution-derived ZnO nanoflowers based photoelectrodes for dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2017, 96, 211-217.	5.2	16
103	Semiconductor-ionic Membrane of LaSrCoFe-oxide-doped Ceria Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2017, 248, 496-504.	5.2	74
104	Nano grained Sr and Zr co-doped BaCeO <sub>3</sub> electrolytes for intermediate temperature solid oxide fuel cells. <i>Ceramics International</i> , 2017, 43, 14354-14360.	4.8	22
105	Protic ionic liquids as a versatile modulator and stabilizer in regulating artificial peroxidase activity of carbon materials for glucose colorimetric sensing. <i>Journal of Molecular Liquids</i> , 2017, 243, 333-340.	4.9	12
106	Standardized Procedures Important for Improving Single-Component Ceramic Fuel Cell Technology. <i>ACS Energy Letters</i> , 2017, 2, 2752-2755.	17.4	30
107	Nickel foam anode-supported solid oxide fuel cells with composite electrolytes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22288-22293.	7.1	4
108	Low-temperature solid oxide fuel cells with bioalcohol fuels. , 2017, , 521-539.		1

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109	Ranitidine Loaded Biopolymer Floats: Designing, Characterization, and Evaluation. Journal of Chemistry, 2017, 2017, 1-12.	1.9	0
110	A Brief Description of High Temperature Solid Oxide Fuel Cell's Operation, Materials, Design, Fabrication Technologies and Performance. Applied Sciences (Switzerland), 2016, 6, 75.	2.5	128
111	The energy crisis in Pakistan: A possible solution via biomass-based waste. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	56
112	High performance of SDC and GDC core shell type composite electrolytes using methane as a fuel for low temperature SOFC. AIP Advances, 2016, 6, .	1.3	25
113	Phenomenological effects of tantalum incorporation into diamond films: Experimental and first principle studies. Applied Surface Science, 2016, 380, 83-90.	6.1	6
114	Highly efficient composite electrolyte for natural gas fed fuel cell. International Journal of Hydrogen Energy, 2016, 41, 6972-6979.	7.1	17
115	Preparation and characterization of Sm and Ca co-doped ceria-La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> semiconductor-ion conductor composites for electrolyte-layer-free fuel cells. Journal of Materials Chemistry A, 2016, 4, 15426-15436.	7.7	17
116	Electrochemical study of natural gas fueled electrodes for low temperature solid oxide fuel cell. International Journal of Modern Physics B, 2016, 30, 1650161.	2.0	8
117	Sonochemical Facile Synthesis of Self-Assembled Poly(o-phenylenediamine)/Cobalt Ferrite Nanohybrid with Enhanced Photocatalytic Activity. Industrial & Engineering Chemistry Research, 2016, 55, 6300-6309.	3.7	40
118	Lasers and Plasmonics: SPR Measurements of Metal Thin Films, Clusters and Bio-Layers. International Journal of Behavioral and Consultation Therapy, 2016, , 315-338.	0.4	1
119	All in One Multifunctional Perovskite Material for Next Generation SOFC. Electrochimica Acta, 2016, 193, 225-230.	5.2	37
120	Electrochemical studies of perovskite cathode material for direct natural gas fuel cell. International Journal of Hydrogen Energy, 2016, 41, 3072-3078.	7.1	25
121	Fuel cell technology for sustainable development in Pakistan – An over-view. Renewable and Sustainable Energy Reviews, 2016, 53, 450-461.	16.4	68
122	Structural and magnetic properties of yttrium iron garnet (YIG) and yttrium aluminum iron garnet (YAIG) nanoferrites prepared by microemulsion method. Journal of Magnetism and Magnetic Materials, 2016, 401, 425-431.	2.3	80
123	Short-term load forecasting using ANN technique. , 2016, , .		1
124	Composite electrolyte with proton conductivity for low-temperature solid oxide fuel cell. Applied Physics Letters, 2015, 107, .	3.3	15
125	Chiral Pool-Based Synthesis of o-Naphtho-Fused Isocoumarins. Chirality, 2015, 27, 951-957.	2.6	7
126	Schottky Junction Effect on High Performance Fuel Cells Based on Nanocomposite Materials. Advanced Energy Materials, 2015, 5, 1401895.	19.5	166



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127	Electronic structure calculations of oxygen-doped diamond using DFT technique. <i>Microelectronic Engineering</i> , 2015, 146, 26-31.	2.4	14
128	Electrical conductivity enhancement by boron-doping in diamond using first principle calculations. <i>Applied Surface Science</i> , 2015, 334, 40-44.	6.1	32
129	Surface functionalization of solid state ultra-high molecular weight polyethylene through chemical grafting. <i>Applied Surface Science</i> , 2015, 359, 593-601.	6.1	6
130	Synthesis of Ba <sub>0.3</sub> Ca <sub>0.7</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> composite material as novel catalytic cathode for ceria-carbonate electrolyte fuel cells. <i>Electrochimica Acta</i> , 2015, 178, 385-391.	5.2	30
131	Significance enhancement in the conductivity of core shell nanocomposite electrolytes. <i>RSC Advances</i> , 2015, 5, 86322-86329.	3.6	31
132	Structural and photovoltaic characteristics of hierarchical ZnO nanostructures electrodes. <i>Applied Surface Science</i> , 2015, 334, 145-150.	6.1	9
133	Guanidine functionalized radiation induced grafted anion-exchange membranes for solid alkaline fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 786-796.	7.1	41
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