

Shobit Omar

List of Publications by Year in descending order

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361413

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#	ARTICLE	IF	CITATIONS
1	Effect of sintering temperature on the microstructure and conductivity of Na _{0.54} Bi _{0.46} Ti _{0.99} Mg _{0.01} O _{3-δ} . Solid State Ionics, 2021, 360, 115547.	2.7	5
2	A Strategic Co-doping Approach Using Sc ³⁺ and Ce ⁴⁺ toward Enhanced Conductivity in NASICON-Type Na ₃ Zr ₂ Si ₂ PO ₁₂ . Journal of Physical Chemistry C, 2021, 125, 27723-27735.	3.1	17
3	Long-Term Conductivity Stability of Metastable Tetragonal Phases in 1Yb ₂ O ₃ -xSc ₂ O ₃ -(99-x)ZrO ₂ (x =) Tj ETQq1 1 0.784314	3.1	9
4	High-performance SrFe _{0.1} Mo _{0.9} O ₃ -based composites for the anode application in solid oxide fuel cells. Electrochimica Acta, 2020, 354, 136759.	5.2	8
5	High 3D Proton Conductivity of a 2D Zn(II) Metal-Organic Framework Synthesized via Water-Assisted Single-Crystal-to-Single-Crystal Phase Transformation. Journal of Physical Chemistry C, 2020, 124, 18901-18910.	3.1	15
6	Validation of defect association energy on modulating oxygen ionic conductivity in low temperature solid oxide fuel cell. Journal of Power Sources, 2020, 480, 229106.	7.8	10
7	Improving the Electrochemical Performance of Na ₃ V ₂ (PO ₄) ₃ Cathode in Na-Ion Batteries by Si-Doping. ACS Applied Energy Materials, 2020, 3, 12054-12065.	5.1	39
8	Designing High Ionic Conducting NASICON-type Na ₃ Zr ₂ Si ₂ PO ₁₂ Solid-Electrolytes for Na-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 9161-9169.	3.1	55
9	Solid solutioning in ZrB ₂ with HfB ₂ : Effect on densification and oxidation resistance. International Journal of Refractory Metals and Hard Materials, 2019, 84, 105041.	3.8	31
10	Doped Ceria for Solid Oxide Fuel Cells. , 2019, , .		5
11	Editorial: Solid-state conductors. Nanomaterials and Energy, 2019, 8, 1-1.	0.2	7
12	Effect of Thermal Aging on the Phase Stability of 1Yb ₂ O ₃ -xSc ₂ O ₃ -(99-x)ZrO ₂ (x =) Tj ETQq0 0 0 rgBT /Overclock 10 Tf60 297 T		
13	Phase stability and conductivity in the pseudo ternary system of xYb ₂ O ₃ -(12-x)Sc ₂ O ₃ -88ZrO ₂ (0 ≤ x ≤ 5). Solid State Ionics, 2019, 332, 93-101.	2.7	19
14	Long-term conductivity stability of acceptor-doped Na _{0.54} Bi _{0.46} TiO _{3-δ} . Solid State Ionics, 2019, 330, 40-46.	2.7	5
15	Influence of excess sodium addition on the structural characteristics and electrical conductivity of Na _{0.5} Bi _{0.5} TiO ₃ . Solid State Ionics, 2018, 317, 115-121.	2.7	25
16	Electrical conductivity study of B-site Ga doped non-stoichiometric sodium bismuth titanate ceramics. Journal of Alloys and Compounds, 2018, 746, 54-61.	5.5	31
17	Temporal stability of oxygen-ion conductivity in 1Nb ₂ O ₅ -10Sc ₂ O ₃ -89ZrO ₂ . Journal of the European Ceramic Society, 2018, 38, 1688-1694.	5.7	4
18	Forty years of the Staebler-Wronski effect. Philosophical Magazine, 2018, 98, 2512-2528.	1.6	3

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19	Densification Kinetics of CeO ₂ Reinforced 8 Mol.% Y ₂ O ₃ Stabilized ZrO ₂ Ceramics. <i>Jom</i> , 2018, 70, 1937-1945.	1.9	3
20	High ionic conductivity of Mg ²⁺ -doped non-stoichiometric sodium bismuth titanate. <i>Acta Materialia</i> , 2018, 159, 8-15.	7.9	38
21	Phase stability and ionic conductivity of cubic xNb ₂ O ₅ -(11-x)Sc ₂ O ₃ -ZrO ₂ (0 ≤ x ≤ 4). <i>Journal of Alloys and Compounds</i> , 2017, 703, 643-651.	5.5	18
22	Ceria/Bismuth Oxide Bilayer Electrolyte based Low-Temperature SOFCs with Stable Electrochemical Performance. <i>ECS Transactions</i> , 2017, 78, 361-370.	0.5	9
23	Electrical conductivity study of CeO ₂ -doped SrTiO ₃ ceramics using impedance spectroscopy. <i>Solid State Ionics</i> , 2017, 309, 1-8.	2.7	4
24	Structural Characteristics and Electrical Conductivity of Spark Plasma Sintered Ytterbia Co-doped Scandia Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 2017, 100, 204-214.	3.8	19
25	Oxygen-ion conduction in scandia-stabilized zirconia-ceria solid electrolyte (xSc ₂ O ₃ ·(1-x)CeO ₂ ·(99-x)ZrO ₂) Tj ETQq1 B. 7843147gBT /Ove	3.8	19
26	Scandia stabilized zirconia-ceria solid electrolyte (xSc ₂ O ₃ , 5 ≤ x ≤ 11) for IT-SOFCs: Structure and conductivity studies. <i>Scripta Materialia</i> , 2016, 121, 10-13.	5.2	43
27	Effect of sintering on mechanical properties of ceria reinforced yttria stabilized zirconia. <i>Ceramics International</i> , 2016, 42, 11393-11403.	4.8	22
28	Interfacial Effect of the Oxygen-Ion Distribution on the Conduction Mechanism in Strontium-Added Ce _{0.8} Sm _{0.2} O _{2-δ} /Na ₂ CO ₃ Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25068-25077.	3.1	19
29	Hot Corrosion of Stabilized Zirconia Thermal Barrier Coatings and the Role of Mg Inhibitor. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2655-2661.	3.8	10
30	Progress in material selection for solid oxide fuel cell technology: A review. <i>Progress in Materials Science</i> , 2015, 72, 141-337.	32.8	1,143
31	Phase evolution in CeO ₂ -doped SrTiO ₃ . <i>Journal of Alloys and Compounds</i> , 2015, 623, 197-202.	5.5	9
32	Ionic Conduction Behavior in Sm _x Nd _{0.15-x} Ce _{0.85} O _{2-δ} . <i>Solid State Ionics</i> , 2014, 263, 190-196.	2.7	31
33	Consistency in the chemical expansion of fluorites: A thermal revision of the doped ceria. <i>Acta Materialia</i> , 2013, 61, 5406-5413.	7.9	34
34	Mechanical properties of spark plasma sintered ceria reinforced 8 mol% yttria-stabilized zirconia electrolyte. <i>Nanomaterials and Energy</i> , 2012, 1, 306-315.	0.2	9
35	Electrical Conductivity of 10 Mol% Sc ₂ O ₃ ·O ₃ ·1 Mol% Mg ₂ O·O ₃ ·ZrO ₂ Ceramics. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1965-1972.	3.8	75
36	Ionic conductivity ageing investigation of 1Ce10ScSZ in different partial pressures of oxygen. <i>Solid State Ionics</i> , 2011, 184, 2-5.	2.7	35

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37	Conductivity ageing studies on 1M10ScSZ (M4+=Ce, Hf). Solid State Ionics, 2011, 189, 100-106.	2.7	22
38	Ionic conductivity ageing behaviour of 10Åmol.% Sc2O3â€“1Åmol.% CeO2â€“ZrO2 ceramics. Journal of Materials Science, 2010, 45, 6406-6410.	3.7	19
39	Performance of anode-supported solid oxide fuel cell using novel ceria electrolyte. Journal of Power Sources, 2010, 195, 2131-2135.	7.8	53
40	Crystal Structureâ€“Ionic Conductivity Relationships in Doped Ceria Systems. Journal of the American Ceramic Society, 2009, 92, 2674-2681.	3.8	172
41	Higher conductivity Sm3+ and Nd3+ co-doped ceria-based electrolyte materials. Solid State Ionics, 2008, 178, 1890-1897.	2.7	191
42	Crystal Growth of Two New Niobates, La2KNbO6 and Nd2KNbO6: Structural, Dielectric, Photophysical, and Photocatalytic Properties. Chemistry of Materials, 2008, 20, 3327-3335.	6.7	32
43	Higher ionic conductive ceria-based electrolytes for solid oxide fuel cells. Applied Physics Letters, 2007, 91, .	3.3	108
44	Electrochemical Performance of SrMg0.1Mo0.9O3-Based Composites for Solid Oxide Fuel Cell Anodes. ACS Applied Energy Materials, 0, , .	5.1	5