Paschal Nbelayim

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Superhydrophobicâ^'Superhydrophilic Micropatterning on Flowerlike Alumina Coating Film by the Solâ^'Gel Method. Chemistry of Materials, 2000, 12, 590-592. | 6.7 | 453 |
| 2 | Heteroatom doped graphene engineering for energy storage and conversion. Materials Today, 2020, 39, 47-65. | 14.2 | 400 |
| 3 | A review on synthesis of graphene, h-BN and MoS2 for energy storage applications: Recent progress and perspectives. Nano Research, 2019, 12, 2655-2694. | 10.4 | 283 |
| 4 | Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. Nature Reviews Chemistry, 2019, 3, 189-198. | 30.2 | 238 |
| 5 | An overview of recent progress in nanostructured carbon-based supercapacitor electrodes: From zero to bi-dimensional materials. Carbon, 2022, 193, 298-338. | 10.3 | 168 |
| 6 | Transparent Anatase Nanocomposite Films by the Sol–Gel Process at Low Temperatures. Journal of the American Ceramic Society, 2000, 83, 229-31. | 3.8 | 150 |
| 7 | Mechanisms of removal of heavy metal ions by ZnO particles. Heliyon, 2019, 5, e01440. | 3.2 | 131 |
| 8 | Honeycomb-like open-edged reduced-graphene-oxide-enclosed transition metal oxides (NiO/Co3O4) as improved electrode materials for high-performance supercapacitor. Journal of Energy Storage, 2020, 30, 101539. | 8.1 | 112 |
| 9 | Microwave-assisted synthesis of Mn3O4-Fe2O3/Fe3O4@rGO ternary hybrids and electrochemical performance for supercapacitor electrode. Diamond and Related Materials, 2020, 101, 107622. | 3.9 | 102 |
| 10 | Effects of drying temperature and ethanol concentration on bipolar switching characteristics of natural Aloe vera-based memory devices. Physical Chemistry Chemical Physics, 2015, 17, 26833-26853. | 2.8 | 101 |
| 11 | Synthesis of plate-like Li3PS4 solid electrolyte via liquid-phase shaking for all-solid-state lithium batteries. Ionics, 2017, 23, 2061-2067. | 2.4 | 96 |
| 12 | Facile in-situ simultaneous electrochemical reduction and deposition of reduced graphene oxide embedded palladium nanoparticles as high performance electrode materials for supercapacitor with excellent rate capability. Electrochimica Acta, 2019, 314, 124-134. | 5.2 | 93 |
| 13 | Facile and fast microwave-assisted formation of reduced graphene oxide-wrapped manganese cobaltite ternary hybrids as improved supercapacitor electrode material. Applied Surface Science, 2019, 481, 296-306. | 6.1 | 86 |
| 14 | Heteroatom doping of 2D graphene materials for electromagnetic interference shielding: a review of recent progress. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 570-619. | 12.3 | 68 |
| 15 | Fine Patterning and Characterization of Gel Films Derived from Methyltriethoxysilane and Tetraethoxysilane. Journal of the American Ceramic Society, 1998, 81, 2849-2852. | 3.8 | 64 |
| 16 | Formation of Anatase Nanocrystals in Sol-Gel Derived TiO2-SiO2 Thin Films with Hot Water Treatment. Journal of Sol-Gel Science and Technology, 2000, 19, 585-588. | 2.4 | 58 |
| 17 | Preparation of Transparent Thick Films by Electrophoretic Solâ€Gel Deposition Using Phenyltriethoxysilaneâ€Derived Particles. Journal of the American Ceramic Society, 1998, 81, 2501-2503. | 3.8 | 58 |
| 18 | Systematic characterization of the effect of Ag@TiO2 nanoparticles on the performance of plasmonic dye-sensitized solar cells. Scientific Reports, 2017, 7, 15690. | 3.3 | 54 |

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|----|--|-----|-----------|
| 19 | Anatase nanocrystalÂdispersed thin films via sol–gel process with hot water treatment: effects of poly(ethylene glycol) addition on photocatalytic activities of the films. Journal of Materials Chemistry, 2001, 11, 2045-2048. | 6.7 | 51 |
| 20 | Superior performance of Ni(OH)2-ErGO@ NF electrode materials as pseudocapacitance using electrochemical deposition via two simple successive steps. Journal of Energy Storage, 2020, 30, 101485. | 8.1 | 49 |
| 21 | One-pot synthesis of reduced graphene oxide nanosheets anchored ZnO nanoparticles via microwave approach for electrochemical performance as supercapacitor electrode. Journal of Materials Science: Materials in Electronics, 2020, 31, 15456-15465. | 2.2 | 47 |
| 22 | Effects of Addition of Poly(ethylene glycol) on the Formation of Anatase Nanocrystals in SiO2â^'TiO2Gel Films with Hot Water Treatment. Chemistry of Materials, 2001, 13, 2144-2149. | 6.7 | 46 |
| 23 | Thermal Softening Behavior and Application to Transparent Thick Films of Poly(benzylsilsesquioxane) Particles Prepared by the Sol?Gel Process. Journal of the American Ceramic Society, 2001, 84, 775-780. | 3.8 | 45 |
| 24 | <i>In situ</i> growth of laser-induced graphene micro-patterns on arbitrary substrates. Nanoscale, 2022, 14, 8914-8918. | 5.6 | 44 |
| 25 | Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 27, 61-69. | 2.4 | 42 |
| 26 | Fast synthesis of Li ₂ S–P ₂ S ₅ –Lil solid electrolyte precursors. Inorganic Chemistry Frontiers, 2017, 4, 1660-1664. | 6.0 | 36 |
| 27 | Nanomaterial Fabrication through the Modification of Sol–Gel Derived Coatings. Nanomaterials, 2021, 11, 181. | 4.1 | 36 |
| 28 | Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 17, 61-69. | 2.4 | 33 |
| 29 | Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 22, 41-46. | 2.4 | 33 |
| 30 | Thermal Softening Behavior of Poly(phenylsilsesquioxane) and Poly(benzylsilsesquioxane) Particles Journal of the Ceramic Society of Japan, 2000, 108, 830-835. | 1.3 | 32 |
| 31 | Preparation of Li7P2S8I Solid Electrolyte and Its Application in All-Solid-State Lithium-Ion Batteries with Graphite Anode. Electronic Materials Letters, 2019, 15, 409-414. | 2.2 | 31 |
| 32 | Sulfur–Carbon Nano Fiber Composite Solid Electrolyte for All-Solid-State Li–S Batteries. ACS Applied Energy Materials, 2020, 3, 1569-1573. | 5.1 | 29 |
| 33 | Effects of Substituting S with Cl on the Structural and Electrochemical Characteristics of Na ₃ SbS ₄ Solid Electrolytes. ACS Applied Energy Materials, 2021, 4, 6125-6134. | 5.1 | 28 |
| 34 | Formation of TiO2(B) Nanocrystallites in Solâ€Gelâ€Derived SiO2â€TiO2 Film. Journal of the American Ceramic Society, 1999, 82, 3248-3250. | 3.8 | 26 |
| 35 | Comparison of electrochemical and microbiological characterization of microbial fuel cells equipped with SPEEK and Nafion membrane electrode assemblies. Journal of Bioscience and Bioengineering, 2016, 122, 322-328. | 2.2 | 25 |
| 36 | Micro- and Nano-assembly of Composite Particles by Electrostatic Adsorption. Nanoscale Research Letters, 2019, 14, 297. | 5.7 | 25 |

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|----|---|-----|-----------|
| 37 | Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 20, 129-134. | 2.4 | 24 |
| 38 | Filamentary Conduction in Aloe Vera Film for Memory Application. Procedia Engineering, 2017, 184, 655-662. | 1.2 | 24 |
| 39 | Phosphosilicate Gels as a Solid State Proton Conductor at Medium Temperature and Low Humidity Journal of the Ceramic Society of Japan, 2002, 110, 131-134. | 1.3 | 22 |
| 40 | Photocatalytic Micropatterning of Transparent Ethylsilsesquioxaneâ^'Titania Hybrid Films. Chemistry of Materials, 2002, 14, 2693-2700. | 6.7 | 22 |
| 41 | Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. ACS Omega, 2020, 5, 26287-26294. | 3.5 | 22 |
| 42 | Fabrication of an all-solid-state Zn-air battery using electroplated Zn on carbon paper and KOH-ZrO2 solid electrolyte. Applied Surface Science, 2019, 487, 343-348. | 6.1 | 21 |
| 43 | Development and fabrication of highly flexible, stretchable, and sensitive strain sensor for long durability based on silver nanoparticles–polydimethylsiloxane composite. Journal of Materials Science: Materials in Electronics, 2020, 31, 11897-11910. | 2.2 | 21 |
| 44 | Effects of Electrode Materials on Charge Conduction Mechanisms of Memory Device Based on Natural Aloe Vera. MRS Advances, 2016, 1, 2513-2518. | 0.9 | 20 |
| 45 | PMMA-ITO Composite Formation via Electrostatic Assembly Method for Infra-Red Filtering. Nanomaterials, 2019, 9, 886. | 4.1 | 20 |
| 46 | High ionic conductivity of multivalent cation doped Li ₆ PS ₅ Cl solid electrolytes synthesized by mechanical milling. RSC Advances, 2020, 10, 22304-22310. | 3.6 | 20 |
| 47 | Nanotube array-based barium titanate–cobalt ferrite composite film for affordable magnetoelectric multiferroics. Journal of Materials Chemistry C, 2019, 7, 10066-10072. | 5.5 | 19 |
| 48 | Mechanical Properties of Sulfide-Type Solid Electrolytes Analyzed by Indentation Methods. ACS Applied Energy Materials, 2022, 5, 2349-2355. | 5.1 | 19 |
| 49 | Preparation of Copolymerized Phenylsilsesquioxane-Benzylsilsesquioxane Particles. Journal of Sol-Gel Science and Technology, 2002, 23, 247-252. | 2.4 | 18 |
| 50 | Micropatterning on Methylsilsesquioxane– Phenylsilsesquioxane Thick Films by the Sol–Gel Method. Journal of the American Ceramic Society, 2000, 83, 3211-3213. | 3.8 | 17 |
| 51 | Facile formation of Fe3O4-particles decorated carbon paper and its application for all-solid-state rechargeable Fe-air battery. Applied Surface Science, 2019, 486, 257-264. | 6.1 | 17 |
| 52 | Green fabrication of 3D hierarchical blossom-like hybrid of peeled montmorillonite-ZnO for in-vitro electrochemical sensing of diltiazem hydrochloride drug. Materials Science and Engineering C, 2020, 111, 110773. | 7.3 | 16 |
| 53 | Voltammetric analysis of nitroxoline in tablets and human serum using modified carbon paste electrodes incorporating mesoporous carbon or multiwalled carbon nanotubes. RSC Advances, 2015, 5, 56086-56097. | 3.6 | 15 |
| 54 | Preparation of Li ₃ PS ₄ Solid Electrolyte by Liquid-Phase Shaking Using Organic Solvents with Carbonyl Group as Complex Forming Medium. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 976-980. | 0.2 | 15 |

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|----|---|-----|-----------|
| 55 | Preparation and Characterization of Stable and Active Pt@TiO ₂ Core–Shell Nanoparticles as Electrocatalyst for Application in PEMFCs. ACS Applied Energy Materials, 2020, 3, 3269-3281. | 5.1 | 15 |
| 56 | The effect of solvent on reactivity of the Li2S–P2S5 system in liquid-phase synthesis of Li7P3S11 solid electrolyte. Scientific Reports, 2021, 11, 21097. | 3.3 | 15 |
| 57 | Ex situ Raman mapping study of mechanism of cordierite formation from stoichiometric oxide precursors. Journal of the European Ceramic Society, 2014, 34, 1009-1015. | 5.7 | 14 |
| 58 | Blue-emitting photoluminescence of rod-like and needle-like ZnO nanostructures formed by hot-water treatment of sol–gel derived coatings. Journal of Luminescence, 2015, 158, 44-49. | 3.1 | 14 |
| 59 | Investigation of the anchor layer formation on different substrates and its feasibility for optical properties control by aerosol deposition. Applied Surface Science, 2019, 483, 212-218. | 6.1 | 13 |
| 60 | Preparation of thermally and chemically robust superhydrophobic coating from liquid phase deposition and low voltage reversible electrowetting. Thin Solid Films, 2017, 636, 273-282. | 1.8 | 12 |
| 61 | Design of Heat-Conductive hBN–PMMA Composites by Electrostatic Nano-Assembly. Nanomaterials, 2020, 10, 134. | 4.1 | 12 |
| 62 | Proton Conductive Inorganic-Organic Hybrid Membranes as an Electrolyte for Fuel Cells Prepared from 3-Glycidoxypropyltrimethoxysilane and Orthophosphoric Acid. Electrochemistry, 2002, 70, 998-1000. | 1.4 | 11 |
| 63 | Synthesis of an All ₃ -doped Li ₂ S positive electrode with superior performance in all-solid-state batteries. Materials Advances, 2022, 3, 2488-2494. | 5.4 | 11 |
| 64 | Nanometer Scale Proton Conductivity and Dynamics of CsHSO ₄ and H ₃ PW ₁₂ O ₄₀ Composites under Non-Humidified Conditions. Chemistry of Materials, 2010, 22, 3418-3425. | 6.7 | 10 |
| 65 | Controlled facile fabrication of plasmonic enhanced Au-decorated ZnO nanowire arrays dye-sensitized solar cells. Materials Today Communications, 2017, 13, 354-358. | 1.9 | 10 |
| 66 | Preparation of hydroxide ion conductive KOH-ZrO2 electrolyte for all-solid state iron/air secondary battery. Solid State Ionics, 2014, 262, 188-191. | 2.7 | 9 |
| 67 | Effect of metal/metal oxide coupling on the photoluminescence properties of ZnO microrods. Applied Physics A: Materials Science and Processing, 2018, 124, 1. | 2.3 | 9 |
| 68 | Development and Characterization of Clay–Nanocomposites for Water Purification. Materials, 2020, 13, 3793. | 2.9 | 9 |
| 69 | Effects of drying temperature on tomato-based thin film as self-powered UV photodetector. Applied Surface Science, 2018, 445, 186-196. | 6.1 | 8 |
| 70 | Electrostatically assembled SiC–Al2O3 composite particles for direct selective laser sintering. Advanced Powder Technology, 2021, 32, 2074-2084. | 4.1 | 8 |
| 71 | Solution Processing via Dynamic Sulfide Radical Anions for Sulfide Solid Electrolytes. Advanced Energy and Sustainability Research, 2022, 3, . | 5.8 | 8 |
| 72 | Effects of Various Additives during Hot Water Treatment on the Formation of Alumina Thin Films for Superhydrophobic Surfaces. Journal of Adhesion Science and Technology, 2008, 22, 387-394. | 2.6 | 7 |

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|----|---|-----|-----------|
| 73 | Sol-gel template synthesis of BaTiO3 films with nano-periodic structures. Materials Letters, 2018, 227, 120-123. | 2.6 | 7 |
| 74 | Ag@TiO ₂ Nanowires-Loaded Dye-Sensitized Solar Cells and Their Effect on the Various Performance Parameters of DSSCs. Journal of the Electrochemical Society, 2018, 165, H500-H509. | 2.9 | 7 |
| 75 | Proton-Conductive Composites Composed of Phosphoric Acid-Doped Silica Gel and Organic Polymers with Sulfo Groups Journal of the Ceramic Society of Japan, 2000, 108, 45-50. | 1.3 | 6 |
| 76 | Formation mechanism of titania nanosheet cryatallites on silica–titania gel films by vibration hot-water treatment. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 161, 170-174. | 3.5 | 6 |
| 77 | Mechanical properties comparison of phenylsilsesquioxane-methylsilsesquioxane hybrid films by indentation. Journal of the Ceramic Society of Japan, 2011, 119, 490-493. | 1.1 | 6 |
| 78 | Influence of UV irradiation on mechanical properties and structures of sol–gel-derived vinylsilsesquioxane films. Journal of the Ceramic Society of Japan, 2012, 120, 442-445. | 1.1 | 6 |
| 79 | Fabrication of convex-shaped polybenzylsilsesquioxane micropatterns by the electrophoretic sol–gel deposition process using indium tin oxide substrates with a hydrophobic-hydrophilic-patterned surface. Journal of Sol-Gel Science and Technology, 2007, 43, 85-91. | 2.4 | 5 |
| 80 | Multiferroic nanocomposite fabrication via liquid phase using anodic alumina template. Science and Technology of Advanced Materials, 2018, 19, 535-542. | 6.1 | 5 |
| 81 | Structural, Thermal and Electrochemical studies of Sm substituted CrFeO3 Nanoâ€Pervoskites. Journal of Alloys and Compounds, 2021, 870, 159420. | 5.5 | 5 |
| 82 | Synthesis of 3Li2S–1P2S5–xLil solid electrolytes by liquid-phase shaking method for all-solid-state Li metal batteries. Journal of Sol-Gel Science and Technology, 2022, 101, 16-23. | 2.4 | 5 |
| 83 | Texture development of surface-modified SiC prepared by EPD in a strong magnetic field. Journal of the Ceramic Society of Japan, 2011, 119, 667-671. | 1.1 | 4 |
| 84 | Effect of annealing temperature on the performance of ZnO thin film-based dye sensitized solar cell. AIP Conference Proceedings, 2020, , . | 0.4 | 4 |
| 85 | Formation of Feâ€embedded graphitic carbon network composites as anode materials for rechargeable Feâ€air batteries. Energy Storage, 2020, 2, e196. | 4.3 | 4 |
| 86 | Ionic Conduction and Electric Modulus in Li ₂ S–CaS and Ca <i>X</i> ₂ (<i>X</i> = F, Cl, Br, and I) Nanocomposites. Electrochemistry, 2022, 90, 067005-067005. | 1.4 | 4 |
| 87 | Influences of Preparation Conditions of Sols on Hardening Behaviors of Silica Gel Films for Micro-Patterning Journal of the Ceramic Society of Japan, 2000, 108, 604-606. | 1.3 | 3 |
| 88 | Application of Protonic Acid-Doped Silica Gels to Electric Double-Layer Capacitors. Journal of Sol-Gel Science and Technology, 2000, 19, 581-584. | 2.4 | 3 |
| 89 | Rapid Nucleation of Reduced Graphene Oxide-Supported Palladium Electrocatalysts for Methanol Oxidation Reaction. Journal of Nanoscience and Nanotechnology, 2019, 19, 7236-7243. | 0.9 | 3 |
| 90 | Anhydrous proton conductive xCHS-(1-x)WSiA composites prepared via liquid-phase shaking. Solid State Ionics, 2019, 337, 1-6. | 2.7 | 3 |

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|-----|---|-----|-----------|
| 91 | Preparation of Cal ₂ -Doped Li ₇ P ₃ S ₁₁ by Liquid-Phase Synthesis and Its Application in an All-Solid-State Battery with a Graphite Anode. Energy & Fuels, 2022, 36, 4577-4584. | 5.1 | 3 |
| 92 | High Ionic Conductivity with Improved Lithium Stability of CaS- and Cal ₂ -Doped Li ₇ P ₃ S ₁₁ Solid Electrolytes Synthesized by Liquid-Phase Synthesis. ACS Omega, 2022, 7, 16561-16567. | 3.5 | 3 |
| 93 | Fuel-free low-temperature self-combustion synthesis and characterization of praseodymium-substituted bismuth titanate ceramics. Journal of the Ceramic Society of Japan, 2012, 120, 58-63. | 1.1 | 2 |
| 94 | Functionalities and modification of sol–gel derived SiO ₂ –TiO ₂ systems for advanced coatings and powders. Journal of the Ceramic Society of Japan, 2022, 130, 143-162. | 1.1 | 2 |
| 95 | Li ₄ SiO ₄ Doped-Li ₇ P ₂ S ₈ I solid electrolytes with high lithium stability synthesised using liquid-phase shaking. RSC Advances, 2022, 12, 7469-7474. | 3.6 | 2 |
| 96 | Li ₇ P ₂ S ₈ I solid electrolytes synthesized by liquid-phase synthesis with improved heat treatment process. Journal of the Ceramic Society of Japan, 2022, 130, 299-302. | 1.1 | 2 |
| 97 | Photoredox behavior of methylviologen doped in silica gel matrices. Journal of Materials Chemistry, 2000, 10, 2765-2768. | 6.7 | 1 |
| 98 | A Wettability Tunable Surface of Nafion [®] with Controlling the Flip-Flop Property by DC Applied Voltage. Key Engineering Materials, 2014, 616, 77-81. | 0.4 | 1 |
| 99 | Estimation of interfacial proton conductivity by effective media approximation for sheet-like composite electrolyte prepared from poly(2-acrylamido-2-methyl-1-propanesulfonic acid)-deposited core-shell particles. Journal of the Ceramic Society of Japan, 2011, 119, 845-849. | 1.1 | 0 |
| 100 | Characterizations and photoelectrochemical properties of Fe2O3 and ZrO2 nanotubes formed by anodic oxidation process. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 101 | An Electrospun Nanofibrous Sensor Based on a Porous (Cr/Zn) Slats Oxide for Voltammetric Detection of Ezetimibe Drug in Real Samples. Electroanalysis, 2021, 33, 2128. | 2.9 | 0 |
| 102 | Fabrication and Electrochemical Characterization of an All-solid-state Battery with an Anti-perovskite Electrode Material (Li2Fe)SO. Chemistry Letters, 2022, 51, 690-692. | 1.3 | 0 |