

Li Lu

List of Publications by Year in descending order

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docs citations

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times ranked

12298
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Review on solid electrolytes for all-solid-state lithium-ion batteries. Journal of Power Sources, 2018, 389, 198-213. | 7.8 | 964 |
| 2 | The electrocapacitive properties of graphene oxide reduced by urea. Energy and Environmental Science, 2012, 5, 6391-6399. | 30.8 | 460 |
| 3 | Nanoflaky MnO ₂ /carbon nanotube nanocomposites as anode materials for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 6896. | 6.7 | 413 |
| 4 | Synthesis of porous hollow Fe ₃ O ₄ beads and their applications in lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 5006. | 6.7 | 224 |
| 5 | Harmonizing Energy and Power Density toward 2.7 V Asymmetric Aqueous Supercapacitor. Advanced Energy Materials, 2018, 8, 1702630. | 19.5 | 201 |
| 6 | Anisotropic Co ₃ O ₄ porous nanocapsules toward high-capacity Li-ion batteries. Journal of Materials Chemistry, 2010, 20, 1506. | 6.7 | 193 |
| 7 | Development of solid-state electrolytes for sodium-ion battery—A short review. Nano Materials Science, 2019, 1, 91-100. | 8.8 | 188 |
| 8 | A high-energy-density supercapacitor with graphene—CMK-5 as the electrode and ionic liquid as the electrolyte. Journal of Materials Chemistry A, 2013, 1, 2313. | 10.3 | 186 |
| 9 | High—energy density nonaqueous all redox flow lithium battery enabled with a polymeric membrane. Science Advances, 2015, 1, e1500886. | 10.3 | 186 |
| 10 | Enhanced Multiferroic Properties and Valence Effect of Ru-Doped BiFeO ₃ Thin Films. Journal of Physical Chemistry C, 2010, 114, 6994-6998. | 3.1 | 181 |
| 11 | Polyvinylpyrrolidone-Induced Uniform Surface-Conductive Polymer Coating Endows Ni-Rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ with Enhanced Cyclability for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 12594-12604. | 8.0 | 173 |
| 12 | Fe ₃ O ₄ Nanoparticles Embedded in Uniform Mesoporous Carbon Spheres for Superior High—Rate Battery Applications. Advanced Functional Materials, 2014, 24, 319-326. | 14.9 | 165 |
| 13 | Graphene-based surface modification on layered Li-rich cathode for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 9954. | 10.3 | 163 |
| 14 | A Na ⁺ Superionic Conductor for Room-Temperature Sodium Batteries. Scientific Reports, 2016, 6, 32330. | 3.3 | 160 |
| 15 | Recent Progress in the Applications of Vanadium—Based Oxides on Energy Storage: from Low—Dimensional Nanomaterials Synthesis to 3D Micro/Nano—Structures and Free—Standing Electrodes Fabrication. Advanced Energy Materials, 2017, 7, 1700547. | 19.5 | 151 |
| 16 | Ru _{0.01} Ti _{0.99} Nb ₂ O ₇ as an intercalation-type anode material with a large capacity and high rate performance for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 8627-8635. | 10.3 | 131 |
| 17 | Composite Solid Polymer Electrolyte with Garnet Nanosheets in Poly(ethylene oxide). ACS Sustainable Chemistry and Engineering, 2019, 7, 7163-7170. | 6.7 | 131 |
| 18 | Lithium storage capability of lithium ion conductor Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ . Journal of Alloys and Compounds, 2010, 501, 255-258. | 5.5 | 127 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Electrochemical Properties of Nonstoichiometric $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Thin-Film Electrodes Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2007, 154, A737. | 2.9 | 117 |
| 20 | Composite NASICON ($\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$) Solid-State Electrolyte with Enhanced Na^+ Ionic Conductivity: Effect of Liquid Phase Sintering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40125-40133. | 8.0 | 115 |
| 21 | One-step synthesis of hollow porous Fe_3O_4 beads/reduced graphene oxide composites with superior battery performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 17656. | 6.7 | 104 |
| 22 | Advances in lead-free pyroelectric materials: a comprehensive review. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1494-1516. | 5.5 | 101 |
| 23 | Advanced electrochemical performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ -based materials for lithium-ion battery: Synergistic effect of doping and compositing. <i>Journal of Power Sources</i> , 2014, 248, 1034-1041. | 7.8 | 99 |
| 24 | $\text{Li}_4\text{Ti}_5\text{O}_{12}$ -based anode materials with low working potentials, high rate capabilities and high cyclability for high-power lithium-ion batteries: a synergistic effect of doping, incorporating a conductive phase and reducing the particle size. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9982-9993. | 10.3 | 97 |
| 25 | A study of the superior electrochemical performance of 3 nm SnO_2 nanoparticles supported by graphene. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5688-5695. | 10.3 | 96 |
| 26 | The Solvent Induced Inter-Dimensional Phase Transformations of Cobalt Zeolitic Imidazolate Frameworks. <i>Chemistry - A European Journal</i> , 2017, 23, 10638-10643. | 3.3 | 95 |
| 27 | A hybrid polymer/oxide/ionic-liquid solid electrolyte for Na-metal batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6424-6431. | 10.3 | 93 |
| 28 | Facile synthesis of chain-like LiCoO_2 nanowire arrays as three-dimensional cathode for microbatteries. <i>NPG Asia Materials</i> , 2014, 6, e126-e126. | 7.9 | 90 |
| 29 | Synthesis of $\text{SnO}_2/\text{MoS}_2$ composites with different component ratios and their applications as lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17857-17866. | 10.3 | 90 |
| 30 | Effect of Li_3PO_4 coating of layered lithium-rich oxide on electrochemical performance. <i>Journal of Power Sources</i> , 2017, 341, 147-155. | 7.8 | 90 |
| 31 | On the fragmentation of active material secondary particles in lithium ion battery cathodes induced by charge cycling. <i>Extreme Mechanics Letters</i> , 2016, 9, 449-458. | 4.1 | 86 |
| 32 | Ultrathin VO_2 nanosheets self-assembled into 3D micro/nano-structured hierarchical porous sponge-like micro-bundles for long-life and high-rate Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8307-8316. | 10.3 | 86 |
| 33 | Failure Mechanism and Interface Engineering for NASICON-Structured All-Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20895-20904. | 8.0 | 83 |
| 34 | Polyanion Sodium Vanadium Phosphate for Next Generation of Sodium-Ion Batteries: A Review. <i>Advanced Functional Materials</i> , 2020, 30, 2001289. | 14.9 | 83 |
| 35 | Hydrothermal synthesis of nanostructured graphene/polyaniline composites as high-capacitance electrode materials for supercapacitors. <i>Scientific Reports</i> , 2017, 7, 44562. | 3.3 | 76 |
| 36 | Nano-structural changes in Li-ion battery cathodes during cycling revealed by FIB-SEM serial sectioning tomography. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18171-18179. | 10.3 | 74 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | X-ray diffraction and photoelectron spectroscopic studies of (001)-oriented Pb(Zr _{0.52} Ti _{0.48})O ₃ thin films prepared by laser ablation. <i>Journal of Applied Physics</i> , 2004, 95, 241-247. | 2.5 | 73 |
| 38 | The influence of preparation conditions on electrochemical properties of LiNi _{0.5} Mn _{1.5} O ₄ thin film electrodes by PLD. <i>Electrochimica Acta</i> , 2007, 52, 2822-2828. | 5.2 | 72 |
| 39 | Texture effect on the electrochemical properties of LiCoO ₂ thin films prepared by PLD. <i>Electrochimica Acta</i> , 2007, 52, 7014-7021. | 5.2 | 71 |
| 40 | Influence of crystallization temperature on ionic conductivity of lithium aluminum germanium phosphate glass-ceramic. <i>Journal of Power Sources</i> , 2015, 290, 123-129. | 7.8 | 71 |
| 41 | Monodisperse Li _{1.2} Mn _{0.6} Ni _{0.2} O ₂ microspheres with enhanced lithium storage capability. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5301. | 10.3 | 66 |
| 42 | Study on Shrinkage Behaviour of Direct Laser Sintering Metallic Powder. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006, 220, 183-190. | 2.4 | 65 |
| 43 | Achieving high energy density in a 4.5 V all nitrogen-doped graphene based lithium-ion capacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19909-19921. | 10.3 | 65 |
| 44 | Hierarchical Porous Intercalation-Type V ₂ O ₃ as High-Performance Anode Materials for Li-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 7538-7544. | 3.3 | 63 |
| 45 | Deactivation of a Single-Site Gold-on-Carbon Acetylene Hydrochlorination Catalyst: An X-ray Absorption and Inelastic Neutron Scattering Study. <i>ACS Catalysis</i> , 2018, 8, 8493-8505. | 11.2 | 63 |
| 46 | Inorganic sodium solid-state electrolyte and interface with sodium metal for room-temperature metal solid-state batteries. <i>Energy Storage Materials</i> , 2021, 34, 28-44. | 18.0 | 63 |
| 47 | Photocrosslinkable nanocomposite ink for printing strong, biodegradable and bioactive bone graft. <i>Biomaterials</i> , 2020, 263, 120378. | 11.4 | 61 |
| 48 | High electric breakdown strength and energy density in vinylidene fluoride oligomer/poly(vinylidene fluoride) based dielectric film. <i>Journal of Applied Physics</i> , 2019, 125, 174101. | 3.3 | 60 |
| 49 | Revealing Mechanism of Li ₃ PO ₄ Coating Suppressed Surface Oxygen Release for Commercial Ni-Rich Layered Cathodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 7445-7455. | 5.1 | 58 |
| 50 | Temperature-Dependent Lithium-Ion Diffusion and Activation Energy of Li _{1.2} Co _{0.13} Ni _{0.13} Mn _{0.54} O ₂ Thin-Film Cathode at Nanoscale by Using Electrochemical Strain Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13999-14005. | 8.0 | 55 |
| 51 | Thermal and compositional driven relaxor ferroelectric behaviours of lead-free Bi _{0.5} Na _{0.5} TiO ₃ -SrTiO ₃ ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2411-2418. | 5.5 | 54 |
| 52 | Study on vacancy formation in ferroelectric PbTiO ₃ from ab initio. <i>Applied Physics Letters</i> , 2006, 88, 142902. | 3.3 | 53 |
| 53 | Ultrathin Nanoribbons of in Situ Carbon-Coated V ₃ O ₇ ·H ₂ O for High-Energy and Long-Life Li-Ion Batteries: Synthesis, Electrochemical Performance, and Charge-Discharge Behavior. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17002-17012. | 8.0 | 53 |
| 54 | Transport and electrochemical properties of high potential tavorite LiVPO ₄ F. <i>Solid State Ionics</i> , 2013, 242, 10-19. | 2.7 | 52 |

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|----|--|------|-----------|
| 55 | Manganese oxide thin films prepared by pulsed laser deposition for thin film microbatteries. <i>Materials Chemistry and Physics</i> , 2014, 143, 720-727. | 4.0 | 50 |
| 56 | Crystal structure, migration mechanism and electrochemical performance of Cr-stabilized garnet. <i>Solid State Ionics</i> , 2014, 268, 135-139. | 2.7 | 50 |
| 57 | Recent advances of bismuth based anode materials for sodium-ion batteries. <i>Materials Technology</i> , 2018, 33, 563-573. | 3.0 | 50 |
| 58 | Microstructural and Electrochemical Properties of Al- and Ga-Doped $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12}$ Garnet Solid Electrolytes. <i>ACS Applied Energy Materials</i> , 2020, 3, 4708-4719. | 5.1 | 50 |
| 59 | Intermolecular interactions and high dielectric energy storage density in poly(vinylidene fluoride) thin films. <i>Journal of Applied Physics</i> , 2010, 107, 252907. | 3.3 | 49 |
| 60 | Three-dimensional hierarchical nickel-cobalt sulfide nanostructures for high performance electrochemical energy storage electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18335-18341. | 10.3 | 49 |
| 61 | Role of carbon coating in improving electrochemical performance of Li-rich $\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ cathode. <i>RSC Advances</i> , 2014, 4, 44244-44252. | 3.6 | 48 |
| 62 | Substantial doping engineering in $\text{Na}_3\text{V}_2\text{Fe}_x(\text{PO}_4)_3$ ($x=0.15$) as high-rate cathode for sodium-ion battery. <i>Materials and Design</i> , 2020, 186, 108287. | 7.0 | 48 |
| 63 | Structure and properties of hot-pressed lead-free $(\text{Ba}_{0.85}\text{Ca}_{0.15})(\text{Zr}_{0.1}\text{Ti}_{0.9})\text{O}_3$ piezoelectric ceramics. <i>RSC Advances</i> , 2013, 3, 20693. | 3.6 | 47 |
| 64 | 1.8 V symmetric supercapacitors developed using nanocrystalline Ru films as electrodes. <i>RSC Advances</i> , 2014, 4, 11111. | 3.6 | 47 |
| 65 | Cycling effects on surface morphology, nanomechanical and interfacial reliability of LiMn_2O_4 cathode in thin film lithium ion batteries. <i>Electrochimica Acta</i> , 2012, 68, 52-59. | 5.2 | 44 |
| 66 | Chemical Bonding Construction of Reduced Graphene Oxide-Anchored Few-Layer Bismuth Oxychloride for Synergistically Improving Sodium-Ion Storage. <i>Chemistry of Materials</i> , 2019, 31, 7311-7319. | 6.7 | 44 |
| 67 | Elevating the discharge plateau of prussian blue analogs through low-spin Fe redox induced intercalation pseudocapacitance. <i>Energy Storage Materials</i> , 2021, 43, 182-189. | 18.0 | 43 |
| 68 | NASICON-Structured $\text{LiGe}_2(\text{PO}_4)_3$ with Improved Cyclability for High-Performance Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20514-20520. | 3.1 | 42 |
| 69 | Probing the Coexistence of Ferroelectric and Relaxor States in $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ -Based Ceramics for Enhanced Piezoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30548-30556. | 8.0 | 41 |
| 70 | Mesoporous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ /C submicrospheres with comprehensively improved electrochemical performances for high-power lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24874-24883. | 2.8 | 40 |
| 71 | Grain boundary effects on Li-ion diffusion in a $\text{Li}_{1.2}\text{Co}_{0.13}\text{Ni}_{0.13}\text{Mn}_{0.54}\text{O}_2$ thin film cathode studied by scanning probe microscopy techniques. <i>RSC Advances</i> , 2016, 6, 94000-94009. | 3.6 | 40 |
| 72 | Extra Sodiation Sites in Hard Carbon for High Performance Sodium Ion Batteries. <i>Small Methods</i> , 2021, 5, e2100580. | 8.6 | 40 |

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|----|--|------|-----------|
| 73 | Pulsed laser deposition of lead-zirconate-titanate thin films and multilayered heterostructures. Applied Physics A: Materials Science and Processing, 2005, 81, 701-714. | 2.3 | 39 |
| 74 | Synthesis and properties of poly(1,3-dioxolane) <i>in situ</i> quasi-solid-state electrolytes <i>via</i> a rare-earth triflate catalyst. Chemical Communications, 2021, 57, 7934-7937. | 4.1 | 39 |
| 75 | A Robust Solidâ€“Solid Interface Using Sodiumâ€“Tin Alloy Modified Metallic Sodium Anode Paving Way for Allâ€“Solidâ€“State Battery. Advanced Energy Materials, 2021, 11, 2101228. | 19.5 | 39 |
| 76 | Nanoscale characterization of charged/discharged lithium-rich thin film cathode by scanning probe microscopy techniques. Journal of Power Sources, 2017, 352, 9-17. | 7.8 | 38 |
| 77 | Effect of bottom electrodes on nanoscale switching characteristics and piezoelectric response in polycrystalline BiFeO ₃ thin films. Journal of Applied Physics, 2011, 110, . | 2.5 | 37 |
| 78 | In-situ nanoscale mapping of surface potential in all-solid-state thin film Li-ion battery using Kelvin probe force microscopy. Journal of Applied Physics, 2012, 111, . | 2.5 | 37 |
| 79 | Improvement of Li ion conductivity of Li ₅ La ₃ Ta ₂ O ₁₂ solid electrolyte by substitution of Ge for Ta. Journal of Power Sources, 2017, 349, 105-110. | 7.8 | 37 |
| 80 | IMPROVED CAPACITIVE BEHAVIOR OF MnO ₂ THIN FILMS PREPARED BY ELECTRODEPOSITION ON THE PT SUBSTRATE WITH A MnO _x BUFFER LAYER. Functional Materials Letters, 2009, 02, 13-18. | 1.2 | 36 |
| 81 | One-pot high temperature hydrothermal synthesis of Fe ₃ O ₄ @C/graphene nanocomposite as anode for high rate lithium ion battery. Electrochimica Acta, 2015, 180, 1041-1049. | 5.2 | 36 |
| 82 | Growth of layered LiNi _{0.5} Mn _{0.5} O ₂ thin films by pulsed laser deposition for application in microbatteries. Applied Physics Letters, 2008, 92, . | 3.3 | 35 |
| 83 | Properties of nano-crystalline LiMn ₂ O ₄ thin films deposited by pulsed laser deposition. Electrochimica Acta, 2006, 52, 1161-1168. | 5.2 | 34 |
| 84 | Flexible, stable, fast-ion-conducting composite electrolyte composed of nanostructured Na-super-ion-conductor framework and continuous Poly(ethylene oxide) for all-solid-state Na battery. Journal of Power Sources, 2020, 454, 227949. | 7.8 | 34 |
| 85 | Insight into the structure-capacity relationship in biomass derived carbon for high-performance sodium-ion batteries. Journal of Energy Chemistry, 2021, 62, 497-504. | 12.9 | 34 |
| 86 | Mitigated phase transition during first cycle of a Li-rich layered cathode studied by in operando synchrotron X-ray powder diffraction. Physical Chemistry Chemical Physics, 2016, 18, 4745-4752. | 2.8 | 33 |
| 87 | Preparation of Nanocomposite Polymer Electrolyte via In Situ Synthesis of SiO ₂ Nanoparticles in PEO. Nanomaterials, 2020, 10, 157. | 4.1 | 32 |
| 88 | Poly(vinylidene fluoride-co-hexafluoropropylene)-graft-poly(dopamine methacrylamide) copolymers: A nonlinear dielectric material for high energy density storage. Applied Physics Letters, 2013, 103, . | 3.3 | 31 |
| 89 | Research Update: Ca doping effect on the Li-ion conductivity in NASICON-type solid electrolyte LiZr ₂ (PO ₄) ₃ : A first-principles molecular dynamics study. APL Materials, 2018, 6, . | 5.1 | 31 |
| 90 | Allâ€“Solidâ€“State Thin Film $\frac{1}{4}$ â€“Batteries for Microelectronics. Advanced Science, 2021, 8, e2100774. | 11.2 | 31 |

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|-----|--|------|-----------|
| 91 | Formation of Magnesium Silicide by Mechanical Alloying. <i>Materials Technology</i> , 1997, 4, 275-283. | 0.3 | 30 |
| 92 | Comparative study of LiMn ₂ O ₄ thin film cathode grown at high, medium and low temperatures by pulsed laser deposition. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3831-3838. | 2.9 | 30 |
| 93 | Li-rich layer-structured cathode materials for high energy Li-ion batteries. <i>Functional Materials Letters</i> , 2014, 07, 1430002. | 1.2 | 30 |
| 94 | Operando X-ray Absorption Spectroscopy Study of Atomic Phase Reversibility with Wavelet Transform in the Lithium-Rich Manganese Based Oxide Cathode. <i>Chemistry of Materials</i> , 2016, 28, 4191-4203. | 6.7 | 30 |
| 95 | Composite Hybrid Quasi-Solid Electrolyte for High-Energy Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 7973-7982. | 5.1 | 30 |
| 96 | Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ Li-ion conductor prepared by melt-quench and low temperature pressing. <i>Solid State Ionics</i> , 2015, 278, 65-68. | 2.7 | 29 |
| 97 | Grain growth and recrystallization of nanocrystalline Al ₃ Ti prepared by mechanical alloying. <i>Journal of Materials Science</i> , 2003, 38, 613-619. | 3.7 | 28 |
| 98 | A facile strategy to achieve high conduction and excellent chemical stability of lithium solid electrolytes. <i>RSC Advances</i> , 2015, 5, 6588-6594. | 3.6 | 28 |
| 99 | Intrinsic low sodium/NASICON interfacial resistance paving the way for room temperature sodium-metal battery. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 418-426. | 9.4 | 28 |
| 100 | Local probing of magnetoelectric coupling and magnetoelastic control of switching in BiFeO ₃ -CoFe ₂ O ₄ thin-film nanocomposite. <i>Applied Physics Letters</i> , 2013, 103, 042906. | 3.3 | 27 |
| 101 | Selective Laser Sintering of Porous Silica Enabled by Carbon Additive. <i>Materials</i> , 2017, 10, 1313. | 2.9 | 26 |
| 102 | A facile method for the synthesis of a sintering dense nano-grained Na ₃ Zr ₂ Si ₂ PO ₁₂ Na-ion solid-state electrolyte. <i>Chemical Communications</i> , 2021, 57, 4023-4026. | 4.1 | 26 |
| 103 | Ultrathin carbon nanopainting of LiFePO ₄ by oxidative surface polymerization of dopamine. <i>Journal of Power Sources</i> , 2014, 265, 239-245. | 7.8 | 25 |
| 104 | Na-rich layered Na ₂ Ti _{1-x} CrxO ₃ (x = 0, 0.06): Na-ion battery cathode materials with high capacity and long cycle life. <i>Scientific Reports</i> , 2017, 7, 373. | 3.3 | 25 |
| 105 | Preparation of thin solid electrolyte by hot-pressing and diamond wire slicing. <i>RSC Advances</i> , 2019, 9, 11670-11675. | 3.6 | 25 |
| 106 | Facile aqueous synthesis of high performance Na ₂ FeM(SO ₄) ₃ (M = Tj, ET, Q, O, O, rg, BT, /Overlock) 2728-2740. | 10.3 | 25 |
| 107 | Li diffusion in spinel LiNi _{0.5} Mn _{1.5} O ₄ thin films prepared by pulsed laser deposition. <i>Physica Scripta</i> , 2007, T129, 43-48. | 2.5 | 24 |
| 108 | Li diffusion in LiNi _{0.5} Mn _{0.5} O ₂ thin film electrodes prepared by pulsed laser deposition. <i>Electrochimica Acta</i> , 2009, 54, 5986-5991. | 5.2 | 24 |

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|-----|--|------|-----------|
| 109 | Roles of Alkaline Earth Ions in Garnet-Type Superionic Conductors. <i>ChemElectroChem</i> , 2017, 4, 266-271. | 3.4 | 23 |
| 110 | A new approach for synthesizing bulk-type all-solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9748-9760. | 10.3 | 23 |
| 111 | Dual-Nitrogen-Doped Carbon Decorated on $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ to Stabilize the Intercalation of Three Sodium Ions. <i>ACS Applied Energy Materials</i> , 2020, 3, 6870-6879. | 5.1 | 23 |
| 112 | Understanding and Preventing Dendrite Growth in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34320-34331. | 8.0 | 23 |
| 113 | ELECTROCHEMICAL PROPERTIES OF BiFeO_3 THIN FILMS PREPARED BY PULSED LASER DEPOSITION. <i>Functional Materials Letters</i> , 2009, 02, 163-167. | 1.2 | 22 |
| 114 | Leakage behavior and conduction mechanisms of $\text{Ba}(\text{Ti}_{0.85}\text{Sn}_{0.15})\text{O}_3/\text{Bi}_{1.5}\text{Zn}_{1.0}\text{Nb}_{1.5}\text{O}_7$ heterostructures. <i>Journal of Applied Physics</i> , 2010, 107, . | 2.5 | 22 |
| 115 | $\text{Li}_5\text{Cr}_9\text{Ti}_4\text{O}_{24}$: A new anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 650, 616-621. | 5.5 | 22 |
| 116 | Ferroelectric Engineered Electrode-Composite Polymer Electrolyte Interfaces for All-Solid-State Sodium Metal Battery. <i>Advanced Science</i> , 2022, 9, e2105849. | 11.2 | 22 |
| 117 | Synthesis mechanism of an Al-Ti-C grain refiner master alloy prepared by a new method. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 1727-1733. | 2.2 | 21 |
| 118 | Abnormal grain growth of WC with small amount of cobalt. <i>Philosophical Magazine</i> , 2007, 87, 5657-5671. | 1.6 | 21 |
| 119 | Electronic Coupling of Cobalt Nanoparticles to Nitrogen-Doped Graphene for Oxygen Reduction and Evolution Reactions. <i>ChemSusChem</i> , 2016, 9, 3067-3073. | 6.8 | 21 |
| 120 | Alleviating mechanical degradation of hexacyanoferrate via strain locking during Na^+ insertion/extraction for full sodium ion battery. <i>Nano Research</i> , 2022, 15, 2123-2129. | 10.4 | 21 |
| 121 | Magnetic and Microstructural Properties of CoCrPt :Oxide Perpendicular Recording Media With Novel Intermediate Layers. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 633-638. | 2.1 | 20 |
| 122 | Structural and Electrochemical Properties of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ Thin-Film Electrodes Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2010, 157, A348. | 2.9 | 20 |
| 123 | In operando X-ray absorption spectroscopy study of charge rate effects on the atomic environment in graphene-coated Li-rich mixed oxide cathode. <i>Materials and Design</i> , 2016, 98, 231-242. | 7.0 | 20 |
| 124 | Synergistic Effect for LiMn_2O_4 Microcubes with Enhanced Rate Capability and Excellent Cycle Stability for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A197-A202. | 2.9 | 20 |
| 125 | Gallium-substituted Nasicon $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ solid electrolytes. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157501. | 5.5 | 20 |
| 126 | Defect and electronic structures of acceptor substituted lead titanate. <i>Applied Physics Letters</i> , 2008, 92, 112909. | 3.3 | 19 |

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|-----|---|------|-----------|
| 127 | Influence of oxygen pressure on the ferroelectric properties of BiFeO_3 thin films on LaNiO_3/Si substrates via laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 651-654. | 2.3 | 19 |
| 128 | Deformation behaviour of ultrafine and nanosize-grained Mg alloy synthesized via mechanical alloying. <i>Philosophical Magazine</i> , 2006, 86, 2919-2939. | 1.6 | 18 |
| 129 | The role of oxygen pressure and thickness on structure and pyroelectric properties of $\text{Ba}(\text{Ti}_{0.85}\text{Sn}_{0.15})\text{O}_3$ thin films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2009, 105, 084102. | 2.5 | 18 |
| 130 | Cycling Effect on Morphological and Interfacial Properties of RuO_2 Anode Film in Thin-Film Lithium Ion Microbatteries. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 26-34. | 2.2 | 18 |
| 131 | Study on stabilization of cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ by Ge substitution in various atmospheres. <i>Functional Materials Letters</i> , 2016, 09, 1642005. | 1.2 | 18 |
| 132 | 3D Frameworks with Variable Magnetic and Electrical Features from Sintered Cobalt-Modified Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20983-20994. | 8.0 | 18 |
| 133 | Multi-substituted garnet-type electrolytes for solid-state lithium batteries. <i>Ceramics International</i> , 2020, 46, 5489-5494. | 4.8 | 18 |
| 134 | The manufacture of micromould and microparts by vacuum casting. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 38, 944-948. | 3.0 | 17 |
| 135 | Role of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ substitution in multiferroic properties of polycrystalline BiFeO_3 thin films. <i>Journal of Applied Physics</i> , 2011, 110, . | 2.5 | 17 |
| 136 | ELECTROCHEMICAL PROPERTY OF LiMn_2O_4 IN OVER-DISCHARGED CONDITIONS. <i>Functional Materials Letters</i> , 2012, 05, 1250028. | 1.2 | 17 |
| 137 | Processing and characterization of laser-sintered $\text{Al}_2\text{O}_3/\text{ZrO}_2/\text{SiO}_2$. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 2565-2569. | 3.0 | 17 |
| 138 | Micro-rapid-prototyping via multi-layered photo-lithography. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 29, 1026-1032. | 3.0 | 15 |
| 139 | Decomposition failure of $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ solid electrolytes induced by electric field: A multi-scenario study using Scanning Probe Microscopy-based techniques. <i>Journal of Power Sources</i> , 2020, 471, 228468. | 7.8 | 15 |
| 140 | Fractal-based description for the three-dimensional surface of materials. <i>Journal of Applied Physics</i> , 1999, 86, 2526-2532. | 2.5 | 14 |
| 141 | Electromechanical Failure of NASICON-Type Solid-State Electrolyte-Based All-Solid-State Li-Ion Batteries. <i>Chemistry of Materials</i> , 2021, 33, 6841-6852. | 6.7 | 14 |
| 142 | Controllable 3D Porous Ni Current Collector Coupled with Surface Phosphorization Enhances Na Storage of Ni_3S_2 Nanosheet Arrays. <i>Small</i> , 2022, 18, e2106161. | 10.0 | 14 |
| 143 | Enhanced tunable and pyroelectric properties of $\text{Ba}(\text{Ti}_{0.85}\text{Sn}_{0.15})\text{O}_3$ thin films with $\text{Bi}_{1.5}\text{Zn}_{1.0}\text{Nb}_{1.5}\text{O}_7$ buffer layers. <i>Applied Physics Letters</i> , 2010, 96, . | 3.3 | 13 |
| 144 | Thickness dependence of structure, tunable and pyroelectric properties of laser-ablated $\text{Ba}(\text{Zr}_{0.25}\text{Ti}_{0.75})\text{O}_3$ thin films. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 035402. | 2.8 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | Orientation-dependent surface potential behavior in Nb-doped BiFeO ₃ . Applied Physics Letters, 2012, 100, . | 3.3 | 13 |
| 146 | Fe ₃ O ₄ /rice husk-based macro-/mesoporous carbon bone nanocomposite as superior high-rate anode for lithium ion battery. Journal of Solid State Electrochemistry, 2017, 21, 27-34. | 2.5 | 13 |
| 147 | Dual Substitution and Spark Plasma Sintering to Improve Ionic Conductivity of Garnet Li ₇ La ₃ Zr ₂ O ₁₂ . Nanomaterials, 2019, 9, 721. | 4.1 | 13 |
| 148 | Rice Husk-Based 3D Porous Silicon/Carbon Nanocomposites as Anode for Lithium-Ion Batteries. Energy Technology, 2019, 7, 1800787. | 3.8 | 13 |
| 149 | Abnormal Ionic Conductivities in Halide NaBi ₃ O ₄ Cl ₂ Induced by Absorbing Water and a Derived Oxhydryl Group. Angewandte Chemie - International Edition, 2020, 59, 8991-8997. | 13.8 | 13 |
| 150 | The role of amorphous Ni ₅₀ P ₅₀ precoating layer in CoCrPtTa thin film media. Journal of Applied Physics, 2000, 87, 6346-6348. | 2.5 | 12 |
| 151 | The mechanical alloying of titanium aluminides. Jom, 2002, 54, 62-64. | 1.9 | 12 |
| 152 | Vortex structure transformation of BaTiO ₃ nanoparticles through the gradient function. Journal of Applied Physics, 2009, 106, . | 2.5 | 12 |
| 153 | Cycling effects on interfacial reliability of TiO ₂ anode film in thin film lithium-ion microbatteries. Journal of Solid State Electrochemistry, 2012, 16, 1877-1881. | 2.5 | 12 |
| 154 | Increasing the high rate performance of mixed metal phospho-olivine cathodes through collective and cooperative strategies. Journal of Power Sources, 2014, 247, 273-279. | 7.8 | 12 |
| 155 | Magnetic, ferroelectric, and dielectric properties of Bi(Sc _{0.5} Fe _{0.5})O ₃ -PbTiO ₃ thin films. Journal of Applied Physics, 2009, 105, 074101. | 2.5 | 11 |
| 156 | Hollow microspherical LiFePO ₄ /C synthesized from a novel multidentate phosphonate complexing agent. RSC Advances, 2013, 3, 5127. | 3.6 | 11 |
| 157 | Dual-Carbon Network for the Effective Transport of Charged Species in a LiFePO ₄ Cathode for Lithium-Ion Batteries. Energy Technology, 2015, 3, 63-69. | 3.8 | 11 |
| 158 | Fe-P-S electrodes for all-solid-state lithium secondary batteries using sulfide-based solid electrolytes. Journal of Power Sources, 2020, 449, 227576. | 7.8 | 11 |
| 159 | Stabilization of cubic Li ₇ La ₃ Zr ₂ O ₁₂ by Al substitution in various atmospheres. Solid State Ionics, 2020, 350, 115323. | 2.7 | 11 |
| 160 | Solid-gas reactions driven by mechanical alloying of niobium and tantalum in nitrogen. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 1097-1100. | 2.2 | 10 |
| 161 | Phase diagram of NaFeyCo _{1-y} O ₂ and evolution of its physico- and electrochemical properties with changing iron content. Journal of Power Sources, 2019, 419, 42-51. | 7.8 | 10 |
| 162 | Li _{3.33} Cu _{1.005} Ti _{4.665} O ₁₂ /CuO composite with P4332 space group for Li-ion batteries: synergistic effect of substituting and compositing. RSC Advances, 2014, 4, 31196-31200. | 3.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Abnormal Phenomena of Multi-Way Sodium Storage in Selenide Electrode. <i>Advanced Functional Materials</i> , 2021, 31, 2102406. | 14.9 | 9 |
| 164 | The effect of O ₃ -P ₃ -P ₂ phases coexistence in Na _x Fe _{0.3} Co _{0.7} O ₂ cathode material on its electronic and electrochemical properties. <i>Experimental and theoretical studies. Journal of Power Sources</i> , 2020, 449, 227471. | 7.8 | 8 |
| 165 | Laser induced transformation of TiSi ₂ . <i>Journal of Applied Physics</i> , 2003, 94, 4291-4295. | 2.5 | 7 |
| 166 | Characterization of crystallized LiMn ₂ O ₄ thin films grown by pulsed laser deposition. <i>Philosophical Magazine</i> , 2007, 87, 3249-3258. | 1.6 | 7 |
| 167 | Doping Induced Hierarchical Lattice Expansion of Cobalt Diselenide/Carbon Nanosheet Hybrid for Fast and Stable Sodium Storage. <i>Cell Reports Physical Science</i> , 2020, 1, 100082. | 5.6 | 7 |
| 168 | Reactive Synthesis of NbAl ₃ Matrix Composites. <i>Materials Research Society Symposia Proceedings</i> , 1990, 194, 79. | 0.1 | 6 |
| 169 | Trap State Spectroscopy of LiM _y Mn _{2-y} O ₄ (M = Mn, Ni, Co): Guiding Principles for Electrochemical Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3812-3817. | 3.1 | 6 |
| 170 | Hierarchical porous CoO /carbon nanocomposite for enhanced lithium storage. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113202. | 3.8 | 6 |
| 171 | Ammonium escorted chloride chemistry in stabilizing aqueous chloride ion battery. <i>Materials Today Energy</i> , 2022, 26, 101020. | 4.7 | 6 |
| 172 | Effect of Matrix Constitution on Microstructure and Mechanical Properties of Rheocast Metal Matrix Composites. <i>Materials and Manufacturing Processes</i> , 1998, 13, 27-52. | 4.7 | 5 |
| 173 | Title is missing!. <i>Journal of Materials Science</i> , 1999, 34, 1681-1689. | 3.7 | 5 |
| 174 | Highly (100) oriented Pb(Zr _{0.52} Ti _{0.48})O ₃ /LaNiO ₃ films grown on amorphous substrates by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 365-370. | 2.3 | 5 |
| 175 | Development of a drop-on-demand system for multiple material dispensing. , 2008, , . | | 5 |
| 176 | ELECTRIC, MAGNETIC AND MECHANICAL COUPLING EFFECTS ON FERROELECTRIC PROPERTIES AND SURFACE POTENTIAL OF BiFeO ₃ THIN FILM. <i>Functional Materials Letters</i> , 2011, 04, 91-95. | 1.2 | 5 |
| 177 | Nanocomposite multilayer capacitors comprising BaTiO ₃ @TiO ₂ and poly(vinylidene fluoride)/TiO ₂ . <i>Journal of Applied Physics</i> , 2014, 115, 1450009. | 2.4 | 5 |
| 178 | Ultrathin, Compacted Gel Polymer Electrolytes Enable High-Energy and Stable Cycling 4V Lithium-Metal Batteries. <i>ChemElectroChem</i> , 2020, 7, 3656-3662. | 3.4 | 5 |
| 179 | STEP-FLOW GROWTH OF HETEROEPITAXIAL SrRuO ₃ THIN FILMS ON 0.04° SrTiO ₃ (001) VICINAL SUBSTRATES. <i>Functional Materials Letters</i> , 2008, 01, 253-257. | 1.2 | 4 |
| 180 | Strain effect on the surface potential and nanoscale switching characteristics of multiferroic BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2012, 100, 132907. | 3.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Ultrathin, dense, hybrid polymer/ceramic gel electrolyte for high energy lithium metal batteries. <i>Materials Letters</i> , 2020, 279, 128480. | 2.6 | 4 |
| 182 | Scalable $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ thin membrane prepared by tape-casting for large-scale lithium-air battery application. <i>Materials Technology</i> , 2020, 35, 572-579. | 3.0 | 4 |
| 183 | Structural, thermal, and electrochemical studies of biodegradable gel polymer electrolyte for electric double layer capacitor. <i>High Performance Polymers</i> , 2022, 34, 673-682. | 1.8 | 4 |
| 184 | Formation of Micromoulds via UV Lithography of SU8 Photoresist and Nickel Electrodeposition. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006, 220, 329-333. | 2.4 | 3 |
| 185 | High-Power and High-Energy Cu -Substituted $\text{Li}_x\text{Ni}_{0.88-y}\text{Co}_y\text{Mn}_{0.1}\text{Cu}_{0.02}\text{O}_2$ Cathode Material for Li -ion Batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900951. | 1.8 | 3 |
| 186 | Supercapacitors Based on Activated Carbons, Products of Rice Hull Processing. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, 818-826. | 0.6 | 3 |
| 187 | Response and Implication of NASICON Solid-State Electrolytes to Local Electrical Stimulation: From Surface Engineering to Interfacial Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46588-46597. | 8.0 | 3 |
| 188 | Mechanochemical Activation of Solid State Reaction between Mg and TiO_2 . <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2003, 46, 251-254. | 0.4 | 2 |
| 189 | ACCEPTOR MODULATED DEFECT AND ELECTRONIC STRUCTURES IN FERROELECTRIC LEAD TITANATE: AN AB INITIO STUDY. <i>Functional Materials Letters</i> , 2008, 01, 121-126. | 1.2 | 2 |
| 190 | Low temperature sintering of crystallized $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ using hot-press technique. <i>Materials Today: Proceedings</i> , 2019, 17, 408-415. | 1.8 | 2 |
| 191 | Fast discharge-charge properties of FePS_3 electrode for all-solid-state batteries using sulfide electrolytes and its stable diffusion path. <i>Functional Materials Letters</i> , 2021, 14, 2141005. | 1.2 | 2 |
| 192 | Porous $\text{Li}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2$ (LAS) Glass-Ceramics Prepared by Selective Laser Melting and Annealing. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 523-528. | 0.1 | 2 |
| 193 | Excimer laser-induced transformation in laser ablated $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ amorphous thin films. <i>Philosophical Magazine</i> , 2004, 84, 3729-3739. | 1.6 | 1 |
| 194 | ELECTROCHEMICAL PERFORMANCE OF MICROBATTERIES USING CRYSTALLIZED LiCoO_2 AND NANO-CRYSTALLINE LiMnO_4 FILM AS CATHODES AND AMORPHOUS LiNiVO_4 AS ANODE. <i>Surface Review and Letters</i> , 2008, 15, 169-174. | 1.1 | 1 |
| 195 | THE BEHAVIOR OF ELECTRODEPOSITED NANOCRYSTALLINE Co-Ni ALLOYS SUBJECTED TO MAGNETIC AND STRESS FIELDS. <i>Surface Review and Letters</i> , 2010, 17, 129-134. | 1.1 | 1 |
| 196 | Abnormal Ionic Conductivities in Halide $\text{NaBi}_3\text{O}_4\text{Cl}_2$ Induced by Absorbing Water and a Derived Oxhydryl Group. <i>Angewandte Chemie</i> , 2020, 132, 9076-9082. | 2.0 | 1 |
| 197 | Effect of silicon substrate amorphization on the kinetics of reaction between a titanium thin film and silicon. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 2923-2934. | 0.6 | 0 |
| 198 | Kinetics of γ -phase transformation in the heat treatment of FeSi_2 - and Fe_2Si_5 -based thermoelectric alloys. <i>Philosophical Magazine</i> , 2003, 83, 2865-2873. | 1.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Novel Approach to Reduce Grain Size in CoCrPt-Oxide Perpendicular Recording Media. , 2006, , . | | 0 |
| 200 | Deformation behaviour of nanocrystalline Mg-Al alloys during nanoindentation. , 2010, , . | | 0 |
| 201 | COMPRESSIVE BEHAVIOUR OF NANOCRYSTALLILNE Mg-5%Al ALLOYS. , 2011, , . | | 0 |
| 202 | Interface between Sodium Metal and Nasicon Solid-State Electrolyte. ECS Meeting Abstracts, 2020, MA2020-02, 833-833. | 0.0 | 0 |
| 203 | Growth of Lanio3 Films by Pulsed Laser Deposition. Ceramic Engineering and Science Proceedings, 0, , 51-55. | 0.1 | 0 |
| 204 | Thin Nasicon Sodium-Ions Solid State Electrolyte By Tape Casting Method. ECS Meeting Abstracts, 2022, MA2022-01, 499-499. | 0.0 | 0 |