

Muhammad Asif

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6071530/publications.pdf>

Version: 2024-02-01

60
papers

3,836
citations

159585

30
h-index

133252

59
g-index

61
all docs

61
docs citations

61
times ranked

3490
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Effect of Graphene Nanoplatelets addition on mechanical properties of pure aluminum using a semi-powder method. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 101-108. | 4.4 | 366 |
| 2 | Synergetic effect of graphene nanoplatelets (GNPs) and multi-walled carbon nanotube (MW-CNTs) on mechanical properties of pure magnesium. <i>Journal of Alloys and Compounds</i> , 2014, 603, 111-118. | 5.5 | 209 |
| 3 | Hierarchically Porous Fe ₂ CoSe ₄ Binary Metal Selenide for Extraordinary Rate Performance and Durable Anode of Sodium-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1802745. | 21.0 | 201 |
| 4 | Transition metal chalcogenide anodes for sodium storage. <i>Materials Today</i> , 2020, 35, 131-167. | 14.2 | 186 |
| 5 | Investigation on microstructural, mechanical and electrochemical properties of aluminum composites reinforced with graphene nanoplatelets. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 460-470. | 4.4 | 171 |
| 6 | Enhanced tensile properties of magnesium composites reinforced with graphene nanoplatelets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 630, 36-44. | 5.6 | 167 |
| 7 | Cobalt selenide decorated carbon spheres for excellent cycling performance of sodium ion batteries. <i>Energy Storage Materials</i> , 2018, 13, 19-28. | 18.0 | 148 |
| 8 | SnO ₂ nanoparticles anchored on carbon foam as a freestanding anode for high performance potassium-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 571-578. | 30.8 | 143 |
| 9 | Powder metallurgy of Mg-1Al-1Sn alloy reinforced with low content of graphene nanoplatelets (GNPs). <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4250-4255. | 5.8 | 142 |
| 10 | Effect of graphene nanoplatelets (GNPs) addition on strength and ductility of magnesium-titanium alloys. <i>Journal of Magnesium and Alloys</i> , 2013, 1, 242-248. | 11.9 | 135 |
| 11 | Improved strength and ductility of magnesium with addition of aluminum and graphene nanoplatelets (Al+GNPs) using semi powder metallurgy method. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 243-250. | 5.8 | 133 |
| 12 | 3D Porous Cu Current Collectors Derived by Hydrogen Bubble Dynamic Template for Enhanced Li Metal Anode Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1808468. | 14.9 | 130 |
| 13 | Development of magnesium-graphene nanoplatelets composite. <i>Journal of Composite Materials</i> , 2015, 49, 285-293. | 2.4 | 121 |
| 14 | Use of high energy ball milling to study the role of graphene nanoplatelets and carbon nanotubes reinforced magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2015, 646, 223-232. | 5.5 | 113 |
| 15 | Recent advances in electrolytes and cathode materials for magnesium and hybrid-ion batteries. <i>Energy Storage Materials</i> , 2020, 25, 342-375. | 18.0 | 112 |
| 16 | Exploring mechanical behavior of Mg-6Zn alloy reinforced with graphene nanoplatelets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 263-269. | 5.6 | 105 |
| 17 | High temperature mechanical behavior of AZ61 magnesium alloy reinforced with graphene nanoplatelets. <i>Materials and Design</i> , 2016, 89, 1242-1250. | 7.0 | 95 |
| 18 | Corrosion behavior of magnesium-graphene composites in sodium chloride solutions. <i>Journal of Magnesium and Alloys</i> , 2017, 5, 271-276. | 11.9 | 87 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | High temperature formability of graphene nanoplatelets-AZ31 composites fabricated by stir-casting method. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 270-277. | 11.9 | 80 |
| 20 | Stable lithium metal anode enabled by lithium metal partial alloying. <i>Nano Energy</i> , 2019, 65, 103989. | 16.0 | 73 |
| 21 | Improved mechanical properties of magnesium based composites with titanium aluminum hybrids. <i>Journal of Magnesium and Alloys</i> , 2015, 3, 1-9. | 11.9 | 72 |
| 22 | Effect of alumina and silicon carbide hybrid reinforcements on tensile, compressive and microhardness behavior of Mg ₃ Al ₁ Zn alloy. <i>Materials Characterization</i> , 2015, 106, 382-389. | 4.4 | 65 |
| 23 | General Approach to Produce Nanostructured Binary Transition Metal Selenides as High Performance Sodium Ion Battery Anodes. <i>Small</i> , 2019, 15, e1901995. | 10.0 | 52 |
| 24 | Low-Cost Room-Temperature Synthesis of NaVO ₃ ·1.69H ₂ O Nanobelts for Mg Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4757-4766. | 8.0 | 48 |
| 25 | Ni-doped MnO ₂ /CNT nanoarchitectures as a cathode material for ultra-long life magnesium/lithium hybrid ion batteries. <i>Materials Today Energy</i> , 2018, 10, 108-117. | 4.7 | 48 |
| 26 | Quest for magnesium-sulfur batteries: Current challenges in electrolytes and cathode materials developments. <i>Coordination Chemistry Reviews</i> , 2020, 415, 213312. | 18.8 | 43 |
| 27 | Quest for carbon and vanadium oxide based rechargeable magnesium-ion batteries. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 364-373. | 11.9 | 40 |
| 28 | Thickness Controlled Water Vapors Assisted Growth of Multilayer Graphene by Ambient Pressure Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3079-3089. | 3.1 | 37 |
| 29 | Room temperature mechanical properties of Mg-Cu-Al alloys synthesized using powder metallurgy method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 129-136. | 5.6 | 31 |
| 30 | Enhanced ductility of Mg ₃ Al ₁ Zn alloy reinforced with short length multi-walled carbon nanotubes using a powder metallurgy method. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 276-281. | 4.4 | 31 |
| 31 | Synthesis of ternary metal oxides as positive electrodes for Mg-Li hybrid ion batteries. <i>Nanoscale</i> , 2020, 12, 924-932. | 5.6 | 31 |
| 32 | Reduced holey graphene oxide film and carbon nanotubes sandwich structure as a binder-free electrode material for supercapacitor. <i>Scientific Reports</i> , 2020, 10, 2315. | 3.3 | 30 |
| 33 | Nickel foam-graphene/MnO ₂ /PANI nanocomposite based electrode material for efficient supercapacitors. <i>Journal of Materials Research</i> , 2015, 30, 3192-3200. | 2.6 | 28 |
| 34 | Enhanced electrochemical supercapacitor properties with synergistic effect of polyaniline, graphene and Ag O. <i>Applied Surface Science</i> , 2016, 370, 297-305. | 6.1 | 28 |
| 35 | Uncovering electrochemistries of rechargeable magnesium-ion batteries at low and high temperatures. <i>Energy Storage Materials</i> , 2021, 42, 129-144. | 18.0 | 28 |
| 36 | Synthesis of a highly efficient 3D graphene-CNT-MnO ₂ -PANI nanocomposite as a binder free electrode material for supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26854-26864. | 2.8 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Surface modification of tin oxide through reduced graphene oxide as a highly efficient cathode material for magnesium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 818-828. | 9.4 | 25 |
| 38 | Improved performance of a MnO ₂ @PANI nanocomposite synthesized on 3D graphene as a binder free electrode for supercapacitors. <i>RSC Advances</i> , 2016, 6, 46100-46107. | 3.6 | 24 |
| 39 | Improving properties of Mg with Al-Cu additions. <i>Materials Characterization</i> , 2014, 95, 140-147. | 4.4 | 22 |
| 40 | Effect of Multiwalled Carbon Nanotubes on Elevated Temperature Tensile and Wear Behavior of Al2024 Matrix Composites Fabricated by Stir Casting and Hot Extrusion. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5227-5237. | 2.5 | 20 |
| 41 | Electrochemical intercalations of divalent ions inside Ni/Zn co-doped cobalt sulfide nanoparticle decorated carbon spheres with superior capacity. <i>Nanoscale</i> , 2020, 12, 14267-14278. | 5.6 | 19 |
| 42 | Understanding the low temperature electrochemistry of magnesium-lithium hybrid ion battery in all-phenyl-complex solutions. <i>Journal of Energy Chemistry</i> , 2021, 56, 383-390. | 12.9 | 19 |
| 43 | Binary-Metal Selenides: General Approach to Produce Nanostructured Binary Transition Metal Selenides as High-Performance Sodium Ion Battery Anodes (Small 33/2019). <i>Small</i> , 2019, 15, 1970176. | 10.0 | 16 |
| 44 | Facile fabrication of polyaniline@MnOOH on a buckypaper ternary composite electrode for free-standing supercapacitors. <i>RSC Advances</i> , 2017, 7, 44523-44530. | 3.6 | 15 |
| 45 | Debating the magnesium-selenium battery technology. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 980-988. | 11.9 | 14 |
| 46 | Confined Polysulfide Shuttle by Nickel Disulfide Nanoparticles Encapsulated in Graphene Nanoshells Synthesized by Cooking Oil. <i>ACS Applied Energy Materials</i> , 2020, 3, 3541-3552. | 5.1 | 14 |
| 47 | Simple synthesis of graphitic nanotube incorporated cobalt nanoparticles for potassium ion batteries. <i>Ceramics International</i> , 2020, 46, 8862-8868. | 4.8 | 13 |
| 48 | Carbon Nanocoil-Supported Three-Dimensional Structure of Nickel-Cobalt Nitrides as the Electrode Material for Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 6678-6687. | 5.1 | 12 |
| 49 | Highly efficient synthesis of carbon nanocoils on alumina spheres. <i>RSC Advances</i> , 2016, 6, 30125-30129. | 3.6 | 9 |
| 50 | Controlled synthesis of carbon nanocoils on monolayered silica spheres. <i>Carbon</i> , 2016, 99, 43-48. | 10.3 | 8 |
| 51 | Investigating role of ammonia in nitrogen-doping and suppressing polyselenide shuttle effect in Na-Se batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 641-650. | 9.4 | 8 |
| 52 | Antidiabetic activity of aqueous extract of <i>Sigesbeckia orientalis</i> (St. Paul's Wort) in alloxan-induced diabetes model. <i>Brazilian Journal of Pharmaceutical Sciences</i> , 0, 55, . | 1.2 | 7 |
| 53 | Recycling Biowaste to Synthesize Nitrogen-Doped Highly Porous Activated Carbon Scaffolds for Selenium Storing with Superior Electrochemical Properties. <i>ACS Applied Energy Materials</i> , 2021, 4, 2786-2796. | 5.1 | 6 |
| 54 | Growth of a Carbon Micro- and Nanocoils Mixture using NiSO ₄ as the Catalyst Precursor. <i>Chemical Vapor Deposition</i> , 2015, 21, 78-83. | 1.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Facile Synthesis of A Unique Structure: CuOx@C Bead-Like Nanowire Array and Its Electrochemical Performance. <i>Electrochimica Acta</i> , 2016, 210, 111-116. | 5.2 | 5 |
| 56 | Facile synthesis of novel octopus-like carbon nanostructures by chemical vapor deposition. <i>Diamond and Related Materials</i> , 2017, 74, 145-153. | 3.9 | 4 |
| 57 | Exploration of molecular mechanisms responsible for anti-inflammatory and anti-angiogenic attributes of methanolic extract of <i>Viola betonicifolia</i> . <i>Inflammopharmacology</i> , 2022, 30, 1459-1474. | 3.9 | 4 |
| 58 | Controlled synthesis of hierarchical porous carbons with different morphologies and their application for potassium and lithium ion batteries. <i>New Journal of Chemistry</i> , 2021, 45, 9882-9891. | 2.8 | 3 |
| 59 | ANTIDIABETIC AND ANTIDYSLIPIDEMIC EFFECTS OF HELIOTROPIUM STRIGOSUM IN RAT MODELS OF TYPE I AND TYPE II DIABETES. <i>Acta Poloniae Pharmaceutica</i> , 2016, 73, 1575-1586. | 0.1 | 2 |
| 60 | Solid-state synthesis of nitrogen-doped graphitic nanotubes with outstanding electrochemical properties. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103113. | 4.9 | 1 |