

Sherif Elbasuney

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,498
citations

361413

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395702

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docs citations

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times ranked

799
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Kinetic Study and Thermal Decomposition Mechanisms of Superthermite-Based Nitrocellulose Nanocomposite. <i>Combustion Science and Technology</i> , 2024, 196, 391-405. | 2.3 | 0 |
| 2 | The significant impact colloidal nanothermite particles ($\text{Fe}_2\text{O}_3/\text{Al}$) on HMX kinetic decomposition. <i>Journal of Energetic Materials</i> , 2023, 41, 27-42. | 2.0 | 6 |
| 3 | Ammonium Perchlorate/HMX Co-crystal: Bespoke Energetic Materials with Tailored Decomposition Kinetics via Dual Catalytic Effect. <i>Journal of Energetic Materials</i> , 2023, 41, 429-448. | 2.0 | 8 |
| 4 | Potential Impact of Reduced Graphene Oxide Incorporated Metal Oxide Nanocomposites as Antimicrobial, and Antibiofilm Agents Against Pathogenic Microbes: Bacterial Protein Leakage Reaction Mechanism. <i>Journal of Cluster Science</i> , 2023, 34, 823-840. | 3.3 | 8 |
| 5 | Microwave-Assisted Synthesis of the Flexible Iron-based MIL-88B Metal-Organic Framework for Advanced Energetic Systems. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 2538-2556. | 3.7 | 10 |
| 6 | Silver nanoparticles coated medical fiber synthesized by surface engineering with bio-inspired mussel powered polydopamine: An investigated antimicrobial potential with bacterial membrane leakage reaction mechanism. <i>Microbial Pathogenesis</i> , 2022, 169, 105680. | 2.9 | 9 |
| 7 | Reduced graphene oxide: a novel black body emitter for advanced infrared decoy flares. <i>Journal of Energetic Materials</i> , 2021, 39, 100-112. | 2.0 | 7 |
| 8 | Synergism of nanothermite and nanophosphorous compound for advanced infrared flares with superior spectral performance. <i>Journal of Energetic Materials</i> , 2021, 39, 273-286. | 2.0 | 3 |
| 9 | Colloid Thermite Nanostructure: A Novel High Energy Density Material for Enhanced Explosive Performance. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 559-565. | 3.7 | 5 |
| 10 | 3D spectral fluorescence signature of cerium(III)-melamine coordination polymer: A novel sensing material for explosive detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 245, 118941. | 3.9 | 7 |
| 11 | Ferric oxide colloid: novel nanocatalyst for heterocyclic nitramines. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 4185-4195. | 2.2 | 9 |
| 12 | Synergistic Catalytic Effect of Thermite Nanoparticles on HMX Thermal Decomposition. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 2293-2305. | 3.7 | 16 |
| 13 | Bio-inspired metastable intermolecular nanothermite composite based on Manganese dioxide/Polydopamine/Aluminium. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9158-9170. | 2.2 | 8 |
| 14 | Novel Composite Solid Propellant with High Resistance to Thermo-oxidative Degradation Reactions, Extended Shelf Life, and Superior Combustion Characteristics. <i>Central European Journal of Energetic Materials</i> , 2021, 18, 143-158. | 0.4 | 2 |
| 15 | The Impact of Metastable Intermolecular Nanocomposite Particles on Kinetic Decomposition of Heterocyclic Nitramines Using Advanced Solid-Phase Decomposition Models. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3665-3676. | 3.7 | 1 |
| 16 | Superior spectral fluorescence signature of novel illuminated melamine resin for industrial explosive detection. <i>Optics and Laser Technology</i> , 2021, 140, 107066. | 4.6 | 5 |
| 17 | Colloidal Nanothermite Particles: Advanced Nanocatalyst and Energy Dense Material for Ammonium Perchlorates. <i>Journal of Electronic Materials</i> , 2021, 50, 6128-6134. | 2.2 | 3 |
| 18 | Promising antimicrobial and antibiofilm activities of reduced graphene oxide-metal oxide (RGO-NiO). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i> | 8.6 | 59 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Total RNA nonlinear polarization: towards facile early diagnosis of breast cancer. RSC Advances, 2021, 11, 33319-33325. | 3.6 | 3 |
| 20 | Green Synthesis of Hydroxyapatite Nanoparticles with Controlled Morphologies and Surface Properties Toward Biomedical Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 899-906. | 3.7 | 23 |
| 21 | Novel Thermoset Nanocomposite Intumescent Coating Based on Hydroxyapatite Nanoplates for Fireproofing of Steel Structures. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 820-830. | 3.7 | 16 |
| 22 | Ferric Oxide Colloid: A Novel Nano-catalyst for Solid Propellants. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 706-713. | 3.7 | 22 |
| 23 | Surface modified colloidal silica nanoparticles: Novel aspect for complete identification of explosive materials. Talanta, 2020, 211, 120695. | 5.5 | 10 |
| 24 | Facile synthesis of RGO-Fe ₂ O ₃ nanocomposite: A novel catalyzing agent for composite propellants. Journal of Materials Science: Materials in Electronics, 2020, 31, 20805-20815. | 2.2 | 23 |
| 25 | Novel laser induced fluorescence with hyperspectral imaging of amplifying fluorescent melamine resin for TNT vapor detection. Optics and Laser Technology, 2020, 132, 106488. | 4.6 | 5 |
| 26 | The potentials of TiO ₂ nanocatalyst on HMX thermolysis. Journal of Materials Science: Materials in Electronics, 2020, 31, 14930-14940. | 2.2 | 11 |
| 27 | Laser induced fluorescence with 2-D Hilbert transform edge detection algorithm and 3D fluorescence images for white spot early recognition. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118616. | 3.9 | 5 |
| 28 | Novel (MnO ₂ /Al) thermite colloid: an opportunity for energetic systems with enhanced performance. Journal of Materials Science: Materials in Electronics, 2020, 31, 21399-21407. | 2.2 | 4 |
| 29 | Novel High Energy Density Material Based on Metastable Intermolecular Nanocomposite. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3980-3988. | 3.7 | 19 |
| 30 | Tunable laser-induced fluorescence with signal correlation algorithm for dental caries detection with controlled ablation. Optics and Laser Technology, 2020, 129, 106299. | 4.6 | 7 |
| 31 | Multi-component nanocomposite infrared flare with superior infrared signature via synergism of nanothermite and reduced graphene oxide. Journal of Materials Science: Materials in Electronics, 2020, 31, 11520-11526. | 2.2 | 7 |
| 32 | Novel nanocomposite decoy flare based on super-thermite and graphite particles. Journal of Materials Science: Materials in Electronics, 2020, 31, 6130-6139. | 2.2 | 7 |
| 33 | Synthesis of CuO-distributed carbon nanofiber: Alternative hybrid for solid propellants. Journal of Materials Science: Materials in Electronics, 2020, 31, 8212-8219. | 2.2 | 11 |
| 34 | Novel colored flames via chromaticity of essential colors. Defence Technology, 2019, 15, 210-215. | 4.2 | 6 |
| 35 | Hyperspectral imaging system associated with novel subtracting image processing algorithm for dental caries early detection. Lasers in Dental Science, 2019, 3, 155-167. | 0.6 | 0 |
| 36 | The significant role of stabilized colloidal ZrO ₂ nanoparticles for corrosion protection of AA2024. Environmental Nanotechnology, Monitoring and Management, 2019, 12, 100242. | 2.9 | 13 |

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|----|--|------|-----------|
| 37 | Infrared Spectra of Customized Magnesium/Teflon/Viton Decoy Flares. Combustion, Explosion and Shock Waves, 2019, 55, 599-605. | 0.8 | 10 |
| 38 | Steric Stabilization of Colloidal Aluminium Particles for Advanced Metalized-Liquid Rocket Propulsion Systems. Combustion, Explosion and Shock Waves, 2019, 55, 353-360. | 0.8 | 5 |
| 39 | MWNTs Coated with CuO Particles: A Novel Nano-catalyst for Solid Propellants. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 2064-2071. | 3.7 | 12 |
| 40 | Novel aspects for thermal stability studies and shelf life assessment of modified double-base propellants. Defence Technology, 2019, 15, 300-305. | 4.2 | 20 |
| 41 | Thermal decomposition of ammonium perchlorate catalyzed with CuO nanoparticles. Defence Technology, 2019, 15, 868-874. | 4.2 | 44 |
| 42 | Synthesis of CuO Nanocrystals Supported on Multiwall Carbon Nanotubes for Nanothermite Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1407-1416. | 3.7 | 4 |
| 43 | Ammonium Perchlorate Encapsulated with TiO ₂ Nanocomposite for Catalyzed Combustion Reactions. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1349-1357. | 3.7 | 27 |
| 44 | Nanothermite colloids: A new prospective for enhanced performance. Defence Technology, 2019, 15, 319-325. | 4.2 | 18 |
| 45 | MnO ₂ Nanoparticles Supported on Porous Al ₂ O ₃ Substrate for Wastewater Treatment: Synergy of Adsorption, Oxidation, and Photocatalysis. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 827-840. | 3.7 | 12 |
| 46 | Novel Superthermite Nanocomposite Hybrid Material Based on CuO Coated Carbon Nanofibers for Advanced Energetic Systems. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 851-858. | 3.7 | 1 |
| 47 | Combustion wave of metalized extruded double-base propellants. Fuel, 2019, 237, 1274-1280. | 6.4 | 13 |
| 48 | Hyperspectral imaging: A new prospective for remote recognition of explosive materials. Remote Sensing Applications: Society and Environment, 2019, 13, 31-38. | 1.5 | 11 |
| 49 | Ferrite Nanoparticles: Synthesis, Characterization, and Catalytic Activity Evaluation for Solid Rocket Propulsion Systems. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 721-729. | 3.7 | 17 |
| 50 | Infrared Signature of Novel Super-Thermite (Fe ₂ O ₃ /Mg) Fluorocarbon Nanocomposite for Effective Countermeasures of Infrared Seekers. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1718-1727. | 3.7 | 29 |
| 51 | Novel Smart Hydroxyapatite/Silica Sol-Gel Nanocomposite Hybrid Coating for Corrosion Protection of AA2024. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1598-1608. | 3.7 | 7 |
| 52 | Chemical stability, thermal behavior, and shelf life assessment of extruded modified double-base propellants. Defence Technology, 2018, 14, 70-76. | 4.2 | 32 |
| 53 | Novel Colloidal Nanothermite Particles (MnO ₂ /Al) for Advanced Highly Energetic Systems. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1793-1800. | 3.7 | 34 |
| 54 | Novel colloidal molybdenum hydrogen bronze (MHB) for instant detection and neutralization of hazardous peroxides. TrAC - Trends in Analytical Chemistry, 2018, 102, 272-279. | 11.4 | 16 |

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|----|---|------|-----------|
| 55 | Novel blue flare tracer with enhanced color quality and luminous intensity. <i>Journal of Luminescence</i> , 2018, 195, 8-13. | 3.1 | 9 |
| 56 | Instant identification of explosive material: Laser induced photoacoustic spectroscopy versus fourier transform infrared. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 269-277. | 11.4 | 13 |
| 57 | Design and implementation of novel hyperspectral imaging for dental carious early detection using laser induced fluorescence. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 24, 166-178. | 2.6 | 12 |
| 58 | Highly energetic nitramines: A novel platonizing agent for double-base propellants with superior combustion characteristics. <i>Fuel</i> , 2018, 227, 478-484. | 6.4 | 19 |
| 59 | Super-Thermite (Al/Fe ₂ O ₃) Fluorocarbon Nanocomposite with Stimulated Infrared Thermal Signature via Extended Primary Combustion Zones for Effective Countermeasures of Infrared Seekers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 2231-2240. | 3.7 | 24 |
| 60 | Novel approach to quantify the chemical stability and shelf life of modified double-base propellants. <i>Defence Technology</i> , 2018, 14, 720-724. | 4.2 | 12 |
| 61 | Instantaneous identification of hazardous explosive-related materials using laser induced photoacoustic spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 106, 151-158. | 11.4 | 9 |
| 62 | Real time recognition of explosophorous group and explosive material using laser induced photoacoustic spectroscopy associated with novel algorithm for time and frequency domain analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 25-32. | 3.9 | 14 |
| 63 | Novel yellow colored flame compositions with superior spectral performance. <i>Defence Technology</i> , 2017, 13, 33-39. | 4.2 | 19 |
| 64 | Stabilized super-thermite colloids: A new generation of advanced highly energetic materials. <i>Applied Surface Science</i> , 2017, 419, 328-336. | 6.1 | 45 |
| 65 | Instant synthesis of bespoke nanoscopic photocatalysts with enhanced surface area and photocatalytic activity for wastewater treatment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 344, 121-133. | 3.9 | 27 |
| 66 | Spectrally adapted red flare tracers with superior spectral performance. <i>Defence Technology</i> , 2017, 13, 406-412. | 4.2 | 8 |
| 67 | Sustainable steric stabilization of colloidal titania nanoparticles. <i>Applied Surface Science</i> , 2017, 409, 438-447. | 6.1 | 67 |
| 68 | Instant detection and identification of concealed explosive-related compounds: Induced Stokes Raman versus infrared. <i>Forensic Science International</i> , 2017, 270, 83-90. | 2.2 | 25 |
| 69 | Combustion characteristics of extruded double base propellant based on ammonium perchlorate/aluminum binary mixture. <i>Fuel</i> , 2017, 208, 296-304. | 6.4 | 66 |
| 70 | Novel laser induced photoacoustic spectroscopy for instantaneous trace detection of explosive materials. <i>Forensic Science International</i> , 2017, 277, 215-222. | 2.2 | 20 |
| 71 | Novel multi-component flame retardant system based on nanoscopic aluminium-trihydroxide (ATH). <i>Powder Technology</i> , 2017, 305, 538-545. | 4.2 | 80 |
| 72 | Certain Ballistic Performance and Thermal Properties Evaluation for Extruded Modified Double-base Propellants. <i>Central European Journal of Energetic Materials</i> , 2017, 14, 621-635. | 0.4 | 8 |

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|----|---|------|-----------|
| 73 | Complete spectroscopic picture of concealed explosives: Laser induced Raman versus infrared. TrAC - Trends in Analytical Chemistry, 2016, 85, 34-41. | 11.4 | 30 |
| 74 | Nanosopic fuel-rich thermobaric formulations: Chemical composition optimization and sustained secondary combustion shock wave modulation. Journal of Hazardous Materials, 2016, 301, 492-503. | 12.4 | 34 |
| 75 | Synthesis and surface modification of nanophosphorous-based flame retardant agent by continuous flow hydrothermal synthesis. Particuology, 2015, 22, 82-88. | 3.6 | 41 |
| 76 | Surface engineering of layered double hydroxide (LDH) nanoparticles for polymer flame retardancy. Powder Technology, 2015, 277, 63-73. | 4.2 | 95 |
| 77 | Continuous flow formulation and functionalization of magnesium di-hydroxide nanorods as a clean nano-fire extinguisher. Powder Technology, 2015, 278, 72-83. | 4.2 | 39 |
| 78 | Continuous hydrothermal synthesis of AlO(OH) nanorods as a clean flame retardant agent. Particuology, 2015, 22, 66-71. | 3.6 | 43 |
| 79 | Dispersion characteristics of dry and colloidal nano-titania into epoxy resin. Powder Technology, 2014, 268, 158-164. | 4.2 | 59 |
| 80 | Assessment of antioxidant resistance to thermal - oxidative degradation of stabilized polybutadiene binder. IOP Conference Series: Materials Science and Engineering, 0, 975, 012006. | 0.6 | 2 |
| 81 | The Potentials of Aluminium Nanoparticles: Novel High Energy Density Material for Underwater Explosions. IOP Conference Series: Materials Science and Engineering, 0, 975, 012008. | 0.6 | 2 |
| 82 | Superior spectral performance of decoy flares compositions via inclusion of graphite as a black body emitter. IOP Conference Series: Materials Science and Engineering, 0, 975, 012005. | 0.6 | 0 |
| 83 | Aluminium Nanoparticles: The Potentials of Metalized Explosives with Combined Destructive Effect (Combustion/Detonation). IOP Conference Series: Materials Science and Engineering, 0, 975, 012009. | 0.6 | 0 |
| 84 | Nitrocellulose catalyzed with nanothermite particles: advanced energetic nanocomposite with superior decomposition kinetics. Journal of Energetic Materials, 0, , 1-16. | 2.0 | 3 |