

Sherif Elbasuney

List of Publications by Year in descending order

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84
papers

1,498
citations

361413

20
h-index

395702

33
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87
all docs

87
docs citations

87
times ranked

799
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface engineering of layered double hydroxide (LDH) nanoparticles for polymer flame retardancy. Powder Technology, 2015, 277, 63-73.	4.2	95
2	Novel multi-component flame retardant system based on nanoscopic aluminium-trihydroxide (ATH). Powder Technology, 2017, 305, 538-545.	4.2	80
3	Sustainable steric stabilization of colloidal titania nanoparticles. Applied Surface Science, 2017, 409, 438-447.	6.1	67
4	Combustion characteristics of extruded double base propellant based on ammonium perchlorate/aluminum binary mixture. Fuel, 2017, 208, 296-304.	6.4	66
5	Dispersion characteristics of dry and colloidal nano-titania into epoxy resin. Powder Technology, 2014, 268, 158-164.	4.2	59
6	Promising antimicrobial and antibiofilm activities of reduced graphene oxide-metal oxide (RGO-NiO). Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.6	59
7	Stabilized super-thermite colloids: A new generation of advanced highly energetic materials. Applied Surface Science, 2017, 419, 328-336.	6.1	45
8	Thermal decomposition of ammonium perchlorate catalyzed with CuO nanoparticles. Defence Technology, 2019, 15, 868-874.	4.2	44
9	Continuous hydrothermal synthesis of AlO(OH) nanorods as a clean flame retardant agent. Particuology, 2015, 22, 66-71.	3.6	43
10	Synthesis and surface modification of nanophosphorous-based flame retardant agent by continuous flow hydrothermal synthesis. Particuology, 2015, 22, 82-88.	3.6	41
11	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
12	Nanoscopic 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
13	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
14	Chemical stability, thermal behavior, and shelf life assessment of extruded modified double-base propellants. Defence Technology, 2018, 14, 70-76.	4.2	32
15	Complete spectroscopic picture of concealed explosives: Laser induced Raman versus infrared. TrAC - Trends in Analytical Chemistry, 2016, 85, 34-41.	11.4	30
16	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
17	Instant synthesis of bespoke nanoscopic photocatalysts with enhanced surface area and photocatalytic activity for wastewater treatment. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 344, 121-133.	3.9	27
18	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

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19	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
20	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
21	Green Synthesis of Hydroxyapatite Nanoparticles with Controlled Morphologies and Surface Properties Toward Biomedical Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 899-906.	3.7	23
22	Facile synthesis of RGO-Fe ₂ O ₃ nanocomposite: A novel catalyzing agent for composite propellants. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20805-20815.	2.2	23
23	Ferric Oxide Colloid: A Novel Nano-catalyst for Solid Propellants. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 706-713.	3.7	22
24	Novel laser induced photoacoustic spectroscopy for instantaneous trace detection of explosive materials. <i>Forensic Science International</i> , 2017, 277, 215-222.	2.2	20
25	Novel aspects for thermal stability studies and shelf life assessment of modified double-base propellants. <i>Defence Technology</i> , 2019, 15, 300-305.	4.2	20
26	Novel yellow colored flame compositions with superior spectral performance. <i>Defence Technology</i> , 2017, 13, 33-39.	4.2	19
27	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
28	Novel High Energy Density Material Based on Metastable Intermolecular Nanocomposite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 3980-3988.	3.7	19
29	Nanothermite colloids: A new prospective for enhanced performance. <i>Defence Technology</i> , 2019, 15, 319-325.	4.2	18
30	Ferrite Nanoparticles: Synthesis, Characterization, and Catalytic Activity Evaluation for Solid Rocket Propulsion Systems. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 721-729.	3.7	17
31	Novel colloidal molybdenum hydrogen bronze (MHB) for instant detection and neutralization of hazardous peroxides. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 102, 272-279.	11.4	16
32	Novel Thermoset Nanocomposite Intumescent Coating Based on Hydroxyapatite Nanoplates for Fireproofing of Steel Structures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 820-830.	3.7	16
33	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
34	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
35	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
36	The significant role of stabilized colloidal ZrO ₂ nanoparticles for corrosion protection of AA2024. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2019, 12, 100242.	2.9	13

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37	Combustion wave of metalized extruded double-base propellants. <i>Fuel</i> , 2019, 237, 1274-1280.	6.4	13
38	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
39	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
40	MWNTs Coated with CuO Particles: A Novel Nano-catalyst for Solid Propellants. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 2064-2071.	3.7	12
41	MnO ₂ Nanoparticles Supported on Porous Al ₂ O ₃ Substrate for Wastewater Treatment: Synergy of Adsorption, Oxidation, and Photocatalysis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 827-840.	3.7	12
42	Hyperspectral imaging: Anew prospective for remote recognition of explosive materials. <i>Remote Sensing Applications: Society and Environment</i> , 2019, 13, 31-38.	1.5	11
43	The potentials of TiO ₂ nanocatalyst on HMX thermolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14930-14940.	2.2	11
44	Synthesis of CuO-distributed carbon nanofiber: Alternative hybrid for solid propellants. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8212-8219.	2.2	11
45	Infrared Spectra of Customized Magnesium/Teflon/Viton Decoy Flares. <i>Combustion, Explosion and Shock Waves</i> , 2019, 55, 599-605.	0.8	10
46	Surface modified colloidal silica nanoparticles: Novel aspect for complete identification of explosive materials. <i>Talanta</i> , 2020, 211, 120695.	5.5	10
47	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
48	Novel blue flare tracer with enhanced color quality and luminous intensity. <i>Journal of Luminescence</i> , 2018, 195, 8-13.	3.1	9
49	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
50	Ferric oxide colloid: novel nanocatalyst for heterocyclic nitramines. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 4185-4195.	2.2	9
51	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
52	Spectrally adapted red flare tracers with superior spectral performance. <i>Defence Technology</i> , 2017, 13, 406-412.	4.2	8
53	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
54	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

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55	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
56	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
57	Novel Smart Hydroxyapatite/Silica Sol-Gel Nanocomposite Hybrid Coating for Corrosion Protection of AA2024. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1598-1608.	3.7	7
58	Tunable laser-induced fluorescence with signal correlation algorithm for dental caries detection with controlled ablation. <i>Optics and Laser Technology</i> , 2020, 129, 106299.	4.6	7
59	Multi-component nanocomposite infrared flare with superior infrared signature via synergism of nanothermite and reduced graphene oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11520-11526.	2.2	7
60	Novel nanocomposite decoy flare based on super-thermite and graphite particles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6130-6139.	2.2	7
61	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
62	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
63	Novel colored flames via chromaticity of essential colors. <i>Defence Technology</i> , 2019, 15, 210-215.	4.2	6
64	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
65	Steric Stabilization of Colloidal Aluminium Particles for Advanced Metalized-Liquid Rocket Propulsion Systems. <i>Combustion, Explosion and Shock Waves</i> , 2019, 55, 353-360.	0.8	5
66	Novel laser induced fluorescence with hyperspectral imaging of amplifying fluorescent melamine resin for TNT vapor detection. <i>Optics and Laser Technology</i> , 2020, 132, 106488.	4.6	5
67	Laser induced fluorescence with 2-D Hilbert transform edge detection algorithm and 3D fluorescence images for white spot early recognition. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118616.	3.9	5
68	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
69	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
70	Synthesis of CuO Nanocrystals Supported on Multiwall Carbon Nanotubes for Nanothermite Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 1407-1416.	3.7	4
71	Novel (MnO_2/Al) thermite colloid: an opportunity for energetic systems with enhanced performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 21399-21407.	2.2	4
72	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

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73	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
74	Total RNA nonlinear polarization: towards facile early diagnosis of breast cancer. <i>RSC Advances</i> , 2021, 11, 33319-33325.	3.6	3
75	Nitrocellulose catalyzed with nanothermite particles: advanced energetic nanocomposite with superior decomposition kinetics. <i>Journal of Energetic Materials</i> , 0, , 1-16.	2.0	3
76	Assessment of antioxidant resistance to thermal - oxidative degradation of stabilized polybutadiene binder. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 975, 012006.	0.6	2
77	The Potentials of Aluminium Nanoparticles: Novel High Energy Density Material for Underwater Explosions. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 975, 012008.	0.6	2
78	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
79	Novel Superthermite Nanocomposite Hybrid Material Based on CuO Coated Carbon Nanofibers for Advanced Energetic Systems. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 851-858.	3.7	1
80	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
81	Hyperspectral imaging system associated with novel subtracting image processing algorithm for dental caries early detection. <i>Lasers in Dental Science</i> , 2019, 3, 155-167.	0.6	0
82	Superior spectral performance of decoy flares compositions via inclusion of graphite as a black body emitter. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 975, 012005.	0.6	0
83	Aluminium Nanoparticles: The Potentials of Metalized Explosives with Combined Destructive Effect (Combustion/Detonation). <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 975, 012009.	0.6	0
84	Kinetic Study and Thermal Decomposition Mechanisms of Superthermite-Based Nitrocellulose Nanocomposite. <i>Combustion Science and Technology</i> , 2024, 196, 391-405.	2.3	0