

Daping Chu

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

3,114
citations

172457

29
h-index

189892

50
g-index

127
all docs

127
docs citations

127
times ranked

3500
citing authors

| # | 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 | Effects of phase flicker in digitally driven phase-only LCOS devices on holographic reconstructed images. <i>Applied Optics</i> , 2022, 61, B25. | 1.8 | 4 |
| 3 | Efficient dynamic control method of light polarization using single phase-only liquid crystal on silicon spatial light modulators for optical data storage. <i>Applied Optics</i> , 2022, 61, B34. | 1.8 | 4 |
| 4 | Holobricks: modular coarse integral holographic displays. <i>Light: Science and Applications</i> , 2022, 11, 57. | 16.6 | 21 |
| 5 | 24 [1Å–12] Wavelength Selective Switches Integrated on a Single 4k LCoS Device. <i>Journal of Lightwave Technology</i> , 2021, 39, 1033-1039. | 4.6 | 14 |
| 6 | 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 |
| 7 | Prospective Immersive Human-Machine Interface for Future Vehicles: Multiple Zones Turn the Full Windscreen Into a Head-Up Display. <i>IEEE Vehicular Technology Magazine</i> , 2021, 16, 83-92. | 3.4 | 15 |
| 8 | Ferric oxide colloid: novel nanocatalyst for heterocyclic nitramines. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 4185-4195. | 2.2 | 9 |
| 9 | Band-limited double-phase method for enhancing image sharpness in complex modulated computer-generated holograms. <i>Optics Express</i> , 2021, 29, 2597. | 3.4 | 45 |
| 10 | LCOS SLM based compact system of polarization modulation for data storage in glass. , 2021, , . | | 2 |
| 11 | Variety of Ordered Patterns in Donor-Acceptor Polymer Semiconductor Films Crystallized from Solution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19055-19063. | 8.0 | 3 |
| 12 | Sub-millisecond switching of multi-level liquid crystal on silicon spatial light modulators for increased information bandwidth. <i>Optics Express</i> , 2021, 29, 24614. | 3.4 | 8 |
| 13 | Deep learning for hologram generation. <i>Optics Express</i> , 2021, 29, 27373. | 3.4 | 20 |
| 14 | 33.1: Invited Paper: Fast switching liquid crystal on silicon spatial light modulator for increased bandwidth. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 439-439. | 0.3 | 0 |
| 15 | Perception of perspective in augmented reality head-up displays. <i>International Journal of Human Computer Studies</i> , 2021, 155, 102693. | 5.6 | 12 |
| 16 | Optimal quantization for amplitude and phase in computer-generated holography. <i>Optics Express</i> , 2021, 29, 119. | 3.4 | 34 |
| 17 | Flexible memory device based on polymer ferroelectric with zinc oxide single-nanowire transistors for robust multilevel operation. <i>Applied Physics Letters</i> , 2021, 119, 203102. | 3.3 | 2 |
| 18 | Impact of Phase Flicker on the Performance of Multilevel Phase Holograms with Phase-Only LCOS Devices. , 2021, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Surface modified colloidal silica nanoparticles: Novel aspect for complete identification of explosive materials. <i>Talanta</i> , 2020, 211, 120695. | 5.5 | 10 |
| 22 | Head-up display with dynamic depth-variable viewing effect. <i>Optik</i> , 2020, 221, 165319. | 2.9 | 8 |
| 23 | High-Resolution Electrochemical Transistors Defined by Mold-Guided Drying of PEDOT:PSS Liquid Suspension. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2611-2618. | 4.3 | 4 |
| 24 | 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 |
| 25 | Bend- and Twist-Insensitive Flexible Multimode Polymer Optical Interconnects. <i>Journal of Lightwave Technology</i> , 2020, 38, 6561-6568. | 4.6 | 3 |
| 26 | 38 \times 2: Magnifying Viewer using Poly μ Si Thin μ Film Phototransistor and Liquid μ Crystal Micro μ Lens Array. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 540-543. | 0.3 | 0 |
| 27 | 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 |
| 28 | Effect of Uniaxial Tensile Strains at Different Orientations on the Characteristics of AlGa _N /Ga _N High-Electron-Mobility Transistors. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 449-454. | 3.0 | 12 |
| 29 | Transient Crosstalk in Holographic Optical Switching Based on Wavefront Encoding. <i>Journal of Lightwave Technology</i> , 2020, 38, 1618-1624. | 4.6 | 7 |
| 30 | Sensing of Oxygen Partial Pressure in Air with ZnO Nanoparticles. <i>Sensors</i> , 2020, 20, 562. | 3.8 | 3 |
| 31 | Scalable coarse integral holographic video display with integrated spatial image tiling. <i>Optics Express</i> , 2020, 28, 9899. | 3.4 | 14 |
| 32 | Large-size updatable optically addressed spatial light modulator (OASLM) based on ZnO nanoparticles for large-area holographic 3D displays. <i>OSA Continuum</i> , 2020, 3, 1703. | 1.8 | 2 |
| 33 | Implementation of 10-Bit Phase Modulation for Phase-Only LCOS Devices Using Deep Learning. <i>Advanced Devices & Instrumentation</i> , 2020, 2020, . | 6.5 | 7 |
| 34 | Spatiotemporal double-phase hologram for complex-amplitude holographic displays. <i>Chinese Optics Letters</i> , 2020, 18, 100901. | 2.9 | 15 |
| 35 | 24 1 μ m–12 Wavelength-Selective Switches Using a 312-port 3D Waveguide and a Single 4k LCoS. , 2020, , . | | 3 |
| 36 | Full bandwidth coarse integral holographic video displays with spatial tiling for scalability. , 2020, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Reduction of switching time in ZnO nanoparticle-based reflective OASLM for holographic displays. , 2020, , . | | 1 |
| 38 | Reduction of response time in transmissive optically addressed spatial light modulator using solution-based ZnO NP/PEDOT:PSS heterojunction. Journal of Optics (United Kingdom), 2020, 22, 115604. | 2.2 | 1 |
| 39 | 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 |
| 40 | Density Modulation of Embedded Nanoparticles via Spatial, Temporal, and Chemical Control Elements. Advanced Materials, 2019, 31, e1901802. | 21.0 | 18 |
| 41 | Highly anisotropic LC material with low dielectric loss for the application of tunable notch filters. Journal of Electromagnetic Waves and Applications, 2019, 33, 1070-1081. | 1.6 | 4 |
| 42 | Computational load reduction by avoiding the recalculation of angular redundancy in computer-generated holograms. ETRI Journal, 2019, 41, 52-60. | 2.0 | 1 |
| 43 | Thermal decomposition of ammonium perchlorate catalyzed with CuO nanoparticles. Defence Technology, 2019, 15, 868-874. | 4.2 | 44 |
| 44 | 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 |
| 45 | Two-dimensional arrays self-assembled via interference of concentration modulation waves in drying solutions. Materials Horizons, 2019, 6, 507-514. | 12.2 | 2 |
| 46 | Liquid Crystal-Based Enclosed Coplanar Waveguide Phase Shifter for 54-66 GHz Applications. Crystals, 2019, 9, 650. | 2.2 | 52 |
| 47 | 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 |
| 48 | Improvements of phase linearity and phase flicker of phase-only LCoS devices for holographic applications. Applied Optics, 2019, 58, G248. | 1.8 | 16 |
| 49 | Reciprocal 360-deg 3D light-field image acquisition and display system [Invited]. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, A77. | 1.5 | 9 |
| 50 | Phase flicker optimisation in digital liquid crystal on silicon devices. Optics Express, 2019, 27, 24556. | 3.4 | 18 |
| 51 | Digital phase-only liquid crystal on silicon device with enhanced optical efficiency. OSA Continuum, 2019, 2, 2445. | 1.8 | 11 |
| 52 | Iterative Phase-Only Hologram Generation Based on the Perceived Image Quality. Applied Sciences (Switzerland), 2019, 9, 4457. | 2.5 | 4 |
| 53 | Mode-mixing in multimode polymer waveguides for on-board optical interconnects. , 2019, , . | | 0 |
| 54 | Video-rate holograms power up. Nature Electronics, 2018, 1, 214-215. | 26.0 | 2 |

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|----|--|------|-----------|
| 55 | High-resolution patterning of solution-processable materials via externally engineered pinning of capillary bridges. <i>Nature Communications</i> , 2018, 9, 393. | 12.8 | 19 |
| 56 | Broadband MoS ₂ Field-Effect Phototransistors: Ultrasensitive Visible-Light Photoresponse and Negative Infrared Photoresponse. <i>Advanced Materials</i> , 2018, 30, 1705880. | 21.0 | 186 |
| 57 | Flexible Multimode Polymer Waveguide Arrays for Versatile High-Speed Short-Reach Communication Links. <i>Journal of Lightwave Technology</i> , 2018, 36, 2685-2693. | 4.6 | 25 |
| 58 | 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 |
| 59 | Flexible Polymer Waveguide Technology for Low-Cost In-Car and In-Plane Optical Interconnects. , 2018, , . | | 0 |
| 60 | Triple-Indicator-Based Multidimensional Colorimetric Sensing Platform for Heavy Metal Ion Detections. <i>ACS Sensors</i> , 2018, 3, 1756-1764. | 7.8 | 65 |
| 61 | Transparent conductors for Mid-infrared liquid crystal spatial light modulators. <i>Thin Solid Films</i> , 2018, 660, 411-420. | 1.8 | 13 |
| 62 | High-Speed Data Transmission Over Flexible Multimode Polymer Waveguides Under Flexure. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1329-1332. | 2.5 | 16 |
| 63 | Fast two-step layer-based method for computer generated hologram using sub-sparse 2D fast Fourier transform. <i>Optics Express</i> , 2018, 26, 17487. | 3.4 | 24 |
| 64 | Full bandwidth dynamic coarse integral holographic displays with large field of view using a large resonant scanner and a galvanometer scanner. <i>Optics Express</i> , 2018, 26, 17459. | 3.4 | 27 |
| 65 | Digital Holographic Display. , 2018, , 113-129. | | 1 |
| 66 | Electrical Rectifying and Photosensing Property of Schottky Diode Based on MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24613-24619. | 8.0 | 40 |
| 67 | Compact liquid crystal based phase shifter with integrated bias tees. , 2018, , . | | 1 |
| 68 | Crosstalk Spectrum Optimisation for Stacked Wavelength Selective Switches Based on 2D Beam Steering. , 2018, , . | | 5 |
| 69 | Design for 360-degree 3D Light-field Camera and Display. , 2018, , . | | 1 |
| 70 | Using Transmissive Photonic Band Edge Shift to Detect Explosives: A Study with 2,4,6-Trinitrotoluene (TNT). <i>ACS Photonics</i> , 2017, 4, 384-395. | 6.6 | 8 |
| 71 | High figure-of-merit compact phase shifters based on liquid crystal material for 10 GHz applications. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 011701. | 1.5 | 36 |
| 72 | Stabilized super-thermite colloids: A new generation of advanced highly energetic materials. <i>Applied Surface Science</i> , 2017, 419, 328-336. | 6.1 | 45 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | 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 |
| 74 | Low-Cost CDC ROADM Architecture Based on Stacked Wavelength Selective Switches. <i>Journal of Optical Communications and Networking</i> , 2017, 9, 375. | 4.8 | 26 |
| 75 | Sustainable steric stabilization of colloidal titania nanoparticles. <i>Applied Surface Science</i> , 2017, 409, 438-447. | 6.1 | 67 |
| 76 | A scalable diffraction-based scanning 3D colour video display as demonstrated by using tiled gratings and a vertical diffuser. <i>Scientific Reports</i> , 2017, 7, 44656. | 3.3 | 21 |
| 77 | 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 |
| 78 | Coherence properties of different light sources and their effect on the image sharpness and speckle of holographic displays. <i>Scientific Reports</i> , 2017, 7, 5893. | 3.3 | 122 |
| 79 | Novel laser induced photoacoustic spectroscopy for instantaneous trace detection of explosive materials. <i>Forensic Science International</i> , 2017, 277, 215-222. | 2.2 | 20 |
| 80 | Novel multi-component flame retardant system based on nanoscopic aluminium-trihydroxide (ATH). <i>Powder Technology</i> , 2017, 305, 538-545. | 4.2 | 80 |
| 81 | Full resolution auto-stereoscopic mobile display based on large scale uniform switchable liquid crystal micro-lens array. <i>Optics Express</i> , 2017, 25, 9654. | 3.4 | 15 |
| 82 | Tunable Liquid Crystal Micro-Lens Array for Image Contrast Enhancement in a Pixelated Thin Film Photo-Transistor Flat Panel Imager. <i>Micromachines</i> , 2017, 8, 205. | 2.9 | 4 |
| 83 | Compact Liquid Crystal Based Tunable Band-Stop Filter with an Ultra-Wide Stopband by Using Wave Interference Technique. <i>International Journal of Antennas and Propagation</i> , 2017, 2017, 1-11. | 1.2 | 11 |
| 84 | Impact of WSS Passband Narrowing Effect on the Capacity of the Flexible-spectrum Networks. , 2017, , . | | 5 |
| 85 | High-Accuracy Self-Calibration for Smart, Optical Orbiting Payloads Integrated with Attitude and Position Determination. <i>Sensors</i> , 2016, 16, 1176. | 3.8 | 20 |
| 86 | Effect of masking phase-only holograms on the quality of reconstructed images. <i>Applied Optics</i> , 2016, 55, 3158. | 1.8 | 6 |
| 87 | Small phase pattern 2D beam steering and a single LCOS design of 40 1 Å— 12 stacked wavelength selective switches. <i>Optics Express</i> , 2016, 24, 12240. | 3.4 | 26 |
| 88 | Uniform and fast switching of window-size smectic A liquid crystal panels utilising the field gradient generated at the fringes of patterned electrodes. <i>Liquid Crystals</i> , 2016, 43, 735-749. | 2.2 | 16 |
| 89 | Fano resonance engineering in mirror-symmetry-broken THz metamaterials. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1. | 2.2 | 6 |
| 90 | An accuracy measurement method for star trackers based on direct astronomic observation. <i>Scientific Reports</i> , 2016, 6, 22593. | 3.3 | 36 |

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|-----|---|------|-----------|
| 91 | Complete spectroscopic picture of concealed explosives: Laser induced Raman versus infrared. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 34-41. | 11.4 | 30 |
| 92 | Advanced die-level assembly techniques and quality analysis for phase-only liquid crystal on silicon devices. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 1659-1664. | 2.4 | 3 |
| 93 | Realization of real-time interactive 3D image holographic display [Invited]. <i>Applied Optics</i> , 2016, 55, A127. | 2.1 | 18 |
| 94 | High-birefringence nematic liquid crystal for broadband THz applications. <i>Liquid Crystals</i> , 2016, 43, 955-962. | 2.2 | 58 |
| 95 | Filling factor characteristics of masking phase-only hologram on the quality of reconstructed images. , 2016, , . | | 2 |
| 96 | Design of a low-cost and compact 1 μ m ² wavelength-selective switch for access networks. <i>Applied Optics</i> , 2015, 54, 8844. | 2.1 | 6 |
| 97 | Synthesis and surface modification of nanophosphorous-based flame retardant agent by continuous flow hydrothermal synthesis. <i>Particuology</i> , 2015, 22, 82-88. | 3.6 | 41 |
| 98 | Surface engineering of layered double hydroxide (LDH) nanoparticles for polymer flame retardancy. <i>Powder Technology</i> , 2015, 277, 63-73. | 4.2 | 95 |
| 99 | Colorimetric-Based Detection of TNT Explosives Using Functionalized Silica Nanoparticles. <i>Sensors</i> , 2015, 15, 12891-12905. | 3.8 | 26 |
| 100 | Continuous flow formulation and functionalization of magnesium di-hydroxide nanorods as a clean nano-fire extinguisher. <i>Powder Technology</i> , 2015, 278, 72-83. | 4.2 | 39 |
| 101 | A high-resolution optically addressed spatial light modulator based on ZnO nanoparticles. <i>Light: Science and Applications</i> , 2015, 4, e259-e259. | 16.6 | 85 |
| 102 | Continuous hydrothermal synthesis of AlO(OH) nanorods as a clean flame retardant agent. <i>Particuology</i> , 2015, 22, 66-71. | 3.6 | 43 |
| 103 | Pixel-level fringing-effect model to describe the phase profile and diffraction efficiency of a liquid crystal on silicon device. <i>Applied Optics</i> , 2015, 54, 5903. | 2.1 | 31 |
| 104 | Fundamentals of phase-only liquid crystal on silicon (LCOS) devices. <i>Light: Science and Applications</i> , 2014, 3, e213-e213. | 16.6 | 352 |
| 105 | High quality micro liquid crystal phase lenses for full resolution image steering in auto-stereoscopic displays. <i>Optics Express</i> , 2014, 22, 21679. | 3.4 | 11 |
| 106 | A compensation method for the full phase retardance nonuniformity in phase-only liquid crystal on silicon spatial light modulators. <i>Optics Express</i> , 2014, 22, 26392. | 3.4 | 13 |
| 107 | Dispersion characteristics of dry and colloidal nano-titania into epoxy resin. <i>Powder Technology</i> , 2014, 268, 158-164. | 4.2 | 59 |
| 108 | Rapid hologram generation utilizing layer-based approach and graphic rendering for realistic three-dimensional image reconstruction by angular tiling. <i>Journal of Electronic Imaging</i> , 2014, 23, 023016. | 0.9 | 38 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | High performance non-volatile ferroelectric copolymer memory based on a ZnO nanowire transistor fabricated on a transparent substrate. Applied Physics Letters, 2014, 104, 033101. | 3.3 | 14 |
| 110 | Nano-Domain Pinning in Ferroelastic-Ferroelectrics by Extended Structural Defects. Advanced Functional Materials, 2014, 24, 5567-5574. | 14.9 | 15 |
| 111 | Compact phase shifter based on highly anisotropic liquid crystals for microwave frequency. Electronics Letters, 2014, 50, 525-526. | 1.0 | 21 |
| 112 | A tunable wideband microstrip bandstop filter based on liquid crystal materials. , 2014, , . | | 3 |
| 113 | 26.1: A Coarse Integral Holographic Display. Digest of Technical Papers SID International Symposium, 2013, 44, 310-313. | 0.3 | 4 |
| 114 | Tantalum-oxide catalysed chemical vapour deposition of single- and multi-walled carbon nanotubes. RSC Advances, 2013, 3, 4086. | 3.6 | 15 |
| 115 | Implementation of shading effect for reconstruction of smooth layer-based 3D holographic images. Proceedings of SPIE, 2013, , . | 0.8 | 14 |
| 116 | Molar Extinction Coefficient of Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 14682-14686. | 3.1 | 132 |
| 117 | The Applications and Technology of Phase-Only Liquid Crystal on Silicon Devices. Journal of Display Technology, 2011, 7, 112-119. | 1.2 | 76 |
| 118 | Domains Beyond the Grain Boundary. Advanced Functional Materials, 2011, 21, 1827-1832. | 14.9 | 32 |
| 119 | Domains Beyond Grain Boundaries: Domains Beyond the Grain Boundary (Adv. Funct. Mater. 10/2011). Advanced Functional Materials, 2011, 21, 1746-1746. | 14.9 | 1 |
| 120 | Optimisation of CNTs and ZnO nanostructures for electron sources. , 2010, , . | | 2 |
| 121 | High emission current density, vertically aligned carbon nanotube mesh, field emitter array. Applied Physics Letters, 2010, 97, . | 3.3 | 62 |
| 122 | $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 90 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\text{A}}^\circ \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{domain}$ dynamics and relaxation in thin ferroelectric/ferroelastic films. Physical Review B, 2010, 81, . | | 23 |
| 123 | Zinc oxide nanowire networks for macroelectronic devices. Applied Physics Letters, 2009, 94, . | 3.3 | 49 |
| 124 | Nanometer resolution piezoresponse force microscopy to study deep submicron ferroelectric and ferroelastic domains. Applied Physics Letters, 2009, 94, 162903. | 3.3 | 33 |
| 125 | Nitrocellulose catalyzed with nanothermite particles: advanced energetic nanocomposite with superior decomposition kinetics. Journal of Energetic Materials, 0, , 1-16. | 2.0 | 3 |