13th International High Energy Materials Conference & Exhibits (HEMCE-22) May 26-28, 2022.

**(First list)**

The following papers based on your extended abstract has been accepted by organizing committee for 13th International High Energy Materials Conference & Exhibits (HEMCE-22) May 26-28, 2022.

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| **Sr. No** | **Registration No** | **Paper Title** | **First Author** |
|  | 4721 | Identification & quantification of risk in propellant processing unit – A dynamic risk analysis approach | K. Sreejesh |
|  | 4729 | Solid hypergolic H2O2-ignitophores | Das Jagdish |
|  | 4730 | Power of sulfur – Chemistry, properties, laser ignition studies of energetic 1,3,4-thiadiazole nitramines | Michael Gozin |
|  | 4731 | Studies on cork reinforced nitrile rubber composite as insulating material | Sriniwas Panda |
|  | 4732 | Vibration assisted vacuum casting technique for thin webbed solid motors | Alok Kumar Petal |
|  | 4733 | Di-cationic nitrogen-rich triazole and tetrazole-based energetic salts: synthesis and detonation performance | Abhishek Kumar Yadav |
|  | 4734 | Investigation of multilayer fragment velocity of a warhead | AnitK Srivastava |
|  | 4736 | A thin-walled metallic structure with circular cross-section as an effective explosive blast and impact energy absorber | Vijay Kumar |
|  | 4738 | Where should begin the first fission of energetic materials molecules (EMs) in a detonation wave | Svatopluk Zeman |
|  | 4740 | Unexpected synthesis of oxadiazole analogues: characterization and energetic properties | ParasarKumar |
|  | 4747 | Energetic tetrasalts of 1,1,2,2-tetranitraminoethane: base induced ring-opening strategy | ShreyasiBanik |
|  | 4748 | Di-cationic nitrogen-rich ethylene-bridged bis-nitro triazole based energetic salts | NavaneetKumar |
|  | 4754a | Study for erosion of thermal protection systems for solid rocket motor applications | Amitabh Chakraborty |
|  | 4754b | Study of different attenuation methods for reduction of pyro shock encountered during stage separation event | Amitabh Chakraborty |
|  | 4758a | Highly-branched silver nanostructures for trace detection of explosives | Ashwani KVerma |
|  | 4758b | Deep-UV SERS-based trace detection of explosives | Govind kumar |
|  | 4761 | Rheological behavior of multimodal AP solid propellant and its effects inGaganyaan CES motor processing | P S Sathiskumar |
|  | 4767 | Effects of spinning on residual velocity of projectile for normal and oblique impact | V Pranay |
|  | 4769 | Two stage synthesis of CL-20 starting from cyclopropylamine | Pampuramara  Vindu |
|  | 4770 | Subscale Simulation of Intersegment Gap Heat Transfer for Solid Rocket Boosters | ShivamKumar |
|  | 4771a | High performance monopropellant based on ammonium dinitramide (ADN) with ionic liquids:  synthesis, thermal and catalytic decomposition | G. Santhosh |
|  | 4771b | A novel low density insulation system for case bonded solid rocket motor | Shashi B Singh |
|  | 4773 | Theoretical and CFD analysis of air vitiators for combustion of fuel-rich propellant gasses in ram combustor | Rushikesh Kore |
|  | 4776 | Ultra-fine ammonium perchlorate storage by additive blending | Vijay Paliwal |
|  | 4778 | Numerical analysis and experimental validation of detonation transfer joint used in launch vehicles | Vinod R Chandran |
|  | 4786 | Methylenedi(4H-1,2,4-triazole-3,4-diamine): prospective nitrogen-rich cation in energetic salts | Ramling S. Mathpati |
|  | 4792a | Numerical analysis of ballistic performance of ceramic-fabric composite armour against 7.62AP round | M. D. Umbharatwala |
|  | 4792b | Numerical investigation on effect of geometrical modifications in hollow and foam-filled tubes | S. Sonje |
|  | 4792c | Blast analysis of twin bunkers in soil and rock subjected to internal explosion | JagritiMandal |
|  | 4792d | A novel pulse shaping technique to forecast tensile behaviour of brittle material using split Hopkinson pressure bar (SHPB) | Shivani Verma |
|  | 4792e | Scaling effect on the performance of innovative sacrificial system under blast loading | N. S. Choudhary |
|  | 4792f | A study on behaviour of honeycomb sandwich structure under combined effect of blast and fragments | P. A. Shirbhate |
|  | 4793 | HTPB Based Energetic Polyurethane with Excellent Self-Healing Property | Akash , ADhas |
|  | 4798a | Development of a novel PEG based energetic copolymer with fluoro and nitrato functionalization [Poly (TFGE-r-GLN)] | Harish Kumar Keerthi |
|  | 4798b | Development of a novel fluoro-nitratoenergetic plasticizer (ACR-ENP-2) | Harish Kumar Keerthi |
|  | 4800 | Design of Linear Measurement System for Special Wire-Winding Process of Explosive Driven Systems | BalwinderKumar |
|  | 4801a | Effect of solid propellant composition and surface condition on ignition transient of solid rocket motor | Deepak Sharma |
|  | 4801b | CFD analysis of nozzle flow separation phenomenon: A case study | Khadar Voli. Kalluru |
|  | 4804 | Self-healing of HTPB based polyurethane binder by extrinsic self-healing method | Suraj A Singh |
|  | 4806 | AUSM+-up based numerical solver for piston and projectile dynamics for two-stage light gas gun | Ayaz Ahmed |
|  | 4808 | Synthesis of biomass derived activated carbon from lemon rind forperchlorate removal from water | R. Radhika |
|  | 4809a | 3,5-diamino-2,4,6-trinitrobenzenaminium with *closo*-dodecaborate (B12H12)2- salt [BAM-H25] and their energetic properties | Muddamarri Hanumantha Rao |
|  | 4809b | Theoretical Investigation of Tetranitroacetimidic Acid (TNAA) with their corresponding nitrogen based salts as energetic materials | Muddamarri Hanumantha Rao |
|  | 4810 | Trace explosives detection using sand dune like copper nanostructure substrate fabricated by femtosecond laser ablation | Reshma Beeram |
|  | 4811 | Theoretical &experimental optimization of insulation machining for large size case bonded solid rocket motors | P. Sivakumar |

* **Prepare and submit full paper as per instructions given on website.**
* **The second list of accepted paper based on abstract will be displayed soon.**