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00011	Temperature Dependent Equations Of State For Energetic Materials	Seth Melvin	Root Baer	SNL
01320	Mechanical Damage, Ignition, And Burn: Experiment, Model Development, And	John Andrew	Reaugh Jones	LLNL AWE
01389	Detonation Velocity Measurements Using PDV And Embedded Fibers	Oliver David Raul Tony David	Strand Hare Garza Whitworth Holtkamp	LLNL
01901	INFLUENCE OF POWDER DISPERSION ON THE REACTION ZONE STRUCTURE	Alexander Valentina	Utkin Mochalova	Institute Of Problems Of Chemical Physics RAS
02180	High-Power Electrostatic Discharges In PETN: Threshold And Scaling Experiments	William James Ralph Danial	Liou McCarrick Hodgin Phillips	LLNL
02200	The Effect Of Charge Reactive-Structural-Material Cases On Air Blast	Fan  Robert	Zhang  Ripley	Defence RandD Canada - Suffield Martec Ltd.
02779	Detonation Propagating In IHE Around A Spherical Obstacle: Comparison Between Experiment DSD And DNS	Christophe	MATIGNON	CEA
03040	Thermodynamic States In Explosion Fields	Allen L.	Kuhl	LLNL
03309	Imaging High Speed Particles In Explosive Driven Blast Waves	Charles	Jenkins	AFRL/RWME
04389	Spectroscopy And Ellipsometry Of Laser Shocked Explosives	Shawn Shawn Von Cynthia Daniel Moore	McGrane McGrane Whitley Bolme Eakins David	LANL
04768	Novel Polynitrogen Precursors From Nitrogen/Hydrogen Alloys	Jennifer	Ciezak	ARL
05810	Shock Initiation And Detonation Propagation In Damaged TATB-based Solid Explosives	Steven Kevin Craig Frank	Chidester Vandersall Tarver Garcia	LLNL
06398	AUTOCATALYTIC MECHANISMS OF DECOMPOSITION IN IDEAL AND DEFOMRED NITROARENES	Maija	Kukla	University Of Maryland
07811	Effects Of Temperature, Humidity, Sample Confinement, Thermal Conductivity, And Other Variables On Bruceton Type 12 Impact Initiation of an HMX - based High Explosive	Paul	Peterson	LANL
07922	Ab Initio Calculation Of 0 K Isotherm And Vibrational Spectra Of PETN Crystal	Alexander	Selezenev	Sarov Laboratories
08447	Examination Of The Pulsating Detonation Instability In A Two-step Model Using	Matei	Radulescu	University Of Ottawa

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	Characteristics	Carlos	Leung	
09041	An Examination Of Blast And Impulse Effects From The Metal Loading Of Explosives	Victor Jonathan Bryce John Blaine	Sanders Zucker Tappan McAfee Asay	LANL
09391	Behaviors Of Nitromethane Under The Various Ignition Conditions	Shiro  Tei  Yuji  Kunihito Katsuya  Hideaki  Ryo	Kubota  Saburi  Ogata  Nagayama Sasaki  Kitajima  Sakamoto	National Institute Of Advanced Industrial Science    Kyushu University Hitachi Zosen Corporation
09583	A Modified Criterion For The Prediction Of Shock Initiation Thresholds For Flyer Plate	Peter Malcolm	Haskins Cook	QinetiQ
10501	Correlating Cookoff Violence With Pre-ignition Damage	Michael Michael	Hobbs Hobbs	SNL
10712	Shock Desensitizing Of Solid Explosive	William William	Davis Davis	LANL
11392	Effects Of Exothermic Binders On Times To Explosion Of HMX-based Plastic Bonded Explosives	Craig	Tarver	LLNL
11985	SINGLE AND DOUBLE SHOCK INITIATION OF TATB BASED EXPLOSIVE T2: COMPARISON OF ELECTROMAGNETIC GAUGE Measurements with Numerical Simulations Using Different Shock to Detonation Transition Models	Arnaud Philippe Blandine Laurent Jean-Hughes Jean-Marc Pascal Regis Christophe	Sollier Manczur Crouzet Soulard Quesada Chevalier Bouinot Duconget Maignon	CEA    Centre D'Etudes De Gramat CEA
12620	X-ray Transmission Tomography For Detonation Investigation	Edward	Pruuel	Lavrentyev Institute Of Hydrodynamics Siberian Bra
12622	Mesoscale Modeling Of LX-17 Under Isentropic Compression	H. Keo	Springer	LLNL
12647	Finite Element Simulation Of Dynamic Response Of PBX With Explicit Account Of Microstructural Fracture	Ananda	Barua	Georgia Institute Of Technology

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12684	Characterization Of Thermal, Mechanical And Detonative Properties Of New Plastic Bonded Explosive Formulations of 1,3,5 - Triamino - 2,4,6 - Trinitrobenzene Re - Crystallized from Ionic Liquid and Ionic Liquid/Co - Solvent Systems	Alexander	Gash	LLNL
12995	Investigations Into The Energy Versus Power Sensitiveness Of Energetic Materials Through Insult With An Electric Spark	Bob	D'Mellow	AWE
13159	Material Properties Effects On The Detonation Spreading And Propagation Of Diaminoazoxyfurazan (DAAF)	Elizabeth	Francois	LANL
13303	Pressure-cooking Of Explosives – The Structure Of A High-pressure, High-temperature Form Of RDX	Colin David William	Pulham Millar Marshall	The University Of Edinburgh ISIS Neutron And Muon Facility
13410	Laser-Ignition Of Laser Dispersed Metal Particles	James Ahmed Mathew  Joel	Lightstone Abdel-Hafez Brodt  Carney	NSWC, IHDIV NSWC, IHDIV University Of Virginia NSWC, IHDIV
13446	Minimum Critical Thickness Measurements In Vapor-Deposited Pentaerythritol Tetranitrate (PETN) Films	Alexander Robert Ryan R.	Tappan Knepper Wixom	SNL
13645	An Integrated DSD/Hydrodynamic Approach For Computing The Motion Of Detonation Of Insensitive HE	Mark Mark Tariq	Short Short Aslam	LANL
14333	Small Scale Violence Experiments For Fast Cook-off	Clare	Bauer	AWE Plc
14671	The Use Of Digital Image Correlation In Explosive Experiments	Franco Bruce Louis	Gagliardi Cunningham Ferranti	LLNL
15395	INVESTIGATION OF LOW DETONATION VELOCITY EMULSION EXPLOSIVES. APPLICATION TO EXPLOSIVE WELDING	Victor Andrew Sergey Vladimir	Silvestrov Plastinin Rafeichik Pai	Lavrentyev Institute Of Hydrodynamics
16153	Development Of Plate And Cylinder Acceleration Mathematical Models	Daniel Ernest Leonard  Erik	Murphy Baker Stiel  Wrobel	US Army ARDEC US Army ARDEC Polytechnic University US Army ARDEC
16290	Influence Of Hot Spot Features On The Initiation Characteristics Of Heterogeneous Nitromethane	Dana Stephen Stahl Andrew Wayne	Dattelbaum Sheffield David Dattelbaum Trott	LANL LANL LANL LANL Sandia National Laboratory
16475	A Multi-Scale Modeling Framework For Shear Initiated Reactions In Energetic Materials	Müge Linhbao  John K.	Fermen-Coker Tran  Brennan	ARL Shock Physics Insight ARL

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16562	Prediction Of Failure Diameter Of Liquid Explosives	Sek	Chan	Orica Canada Inc.
16950	LX-17 And UFTATB Data For Corner-Turning, Failure And Detonation	Clark Clark Lisa Raul Peter	Souers Souers Lauderbach Garza Vitello	LLNL
17942	Extremely Low Sensitivity Melt Castable Explosives Based On FOX-12	Henric	Östmark	Swedish Defence Research Agency, FOI
18277	Thermo-mechanical Behavior Of PBX 9501	Partha Darla Cheng Matthew	Rangaswamy Thompson Liu Lewis	LANL
19209	Visible And Near-Infrared Spectral Signatures Following The Detonation Of PETN-Based Explosives	Joel James Jon Scott	Carney Lightstone Koch Piecuch	IHDIV NSWC Marquette University
19333	Hazard Response Experiments For Use In Assessing MandS Capabilities For Detonation	Scott	Kukuck	ARL
19552	Characterization Of Physical Processes In Exploding Foil Initiators	David Evan	Damm Dudley	SNL
19647	SHOCK INITIATION EXPERIMENTS AND MODELING ON THE TATB BASED EXPLOSIVE RX-03-GO	Kevin	Vandersall	LLNL
20410	WBL-Consistent JWL Equations Of State For HMX And TATB-Based Explosives	Mike Alex	Goff Hodgson	AWE Plc
20703	Multiscale Simulation Of Hot Spot Ignition	Laurence Fady Riad Michael Evan Nir	Fried Najjar Manaa Howard Reed Goldman	LLNL
20819	Initiation Of Energetic Materials: From Intermolecular Shearing To Nano-	Ronald	Armstrong	University Of Maryland
23447	Underwater Explosion Performance Of Aluminized Explosives With Wide Range	Ykio Kenji	Kato Murata	Nippon-koki Co.,Ltd.
23512	Thermodynamic Properties Of Detonation Products Including Solid Carbon Clusters	Nicolas Emeric Guillaume Jean-Bernard	Pineau Bourasseau Chevrot Maillet	CEA DAM
24044	Computation Of Detonation Waves In High Explosives With Material Variability	Larry Tariq	Hill Aslam	LANL
24248	Resonance Photoinitiation Of PETN	Edward  Nadezhda Gennadiy Alexander Anatoliy Denis	Aluker  Aluker Belokurov Krechetov Mitrofanov Nurmukhametov	Kemerovo State University KB ISSChM SB RAS Kemerovo State University KB ISSChM SB RAS

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		Alexander	Tupitsyn	Kemerovo State University
24310	Towards New Energy-rich Molecular Systems: Polynitrogen	Jonathan Riad Daniel Babak	Crowhurst Manaa Aberg Sadigh	LLNL
26032	Anisotropic Sensitivity Of Explosive Crystals From Compressive-Shear Reactive Dynamics Simulations	Sergey Peng Qi Yi William A.	Zybin Xu An Liu Goddard III	California Institute Of Technology
26173	The Effects Of Metal Loading On The Detonation Properties Of Explosive Mixes	Charles Mary Craig Mike	Needham Brown Watry Anderson	Applied Research Associates
26338	COMBUSTION/EXPLOSION INITIATION IN LIQUID AND SOLID ENERGETIC SUBSTANCES	Michael	Grinfeld	ARL
26494	Small Angle Neutron Scattering Studies Of RDX Defect Structure	Chad Brian Joseph Colin	Stoltz Mason Hooper Roberts	NSWC, IHDIV
27479	Predicting The Contribution Of Case Combustion To Explosive Performance With SHAMRC	Craig	Watry	Applied Research Associates
27636	Explosive Response To Complex Loading: Shock Desensitization	Scott	Kukuck	ARL
28482	Ab-initio Discovery Of Ultrafast Detonation And Metallization In Nitromethane And Hydrazoic Acid	Evan	Reed	LLNL
29194	Optical Flow Visualization Of The Low Velocity Detonation Phenomena Of HN And HH Mixture	Tomoharu	Matsumura	Nat. Inst. Of Adv. Ind. Sci. and Tech. (AIST)
29949	Thermal Non Equilibrium Modeling Of The Detonation Waves In Highly Heterogeneous Condensed HE	Gerard	Baudin	DGA/DET/Centre D'Etudes De Gramat
30026	The Effects Of Strain And Interface Energy In NiAl Reactive Multilayers	Peter	Chung	ARL
30524	On The Shock Response Of HMX And TATB Based Explosives To Complex 1-D Plate Impacts	Susan	Sorber	AWE Plc
31246	Hazard Characterisation Of Fox-7 Compositions With Varying Particle Sizes	Helen Steve Chris	Flower Wortley Stennett	AWE AWE Cranfield University
31425	Advances In Stochastic Kinetics Modelling	Emmanuel	LAPEBIE	DGA/CEG
32053	The ODTX System For Thermal Ignition And Thermal Safety Study Of Energetic Materials	Peter Gary Mike Jon	Hsu Hust Howard Maienschein	LLNL
32448	Increasing The Utility Of The Copper Cylinder Expansion Test	Warren Warren	Maines Maines	AFRL

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		George Michael	Butler Lindsay	USAFA
33066	Towards Quantum Controlled Initiation Of Explosives	Margo Shawn Jason David	Greenfield McGrane Scharff Moore	LANL
34340	Interaction Of A Blast Wave With A Metalized Explosive Fireball	David Sam Robert	Frost Goroshin Ripley	McGill University McGill University Martec Ltd.
34726	On The Role Of Phonon Scattering Explosive Compositions On The Basis Of Mechanoactivated Nanocomposites Of Metals And Solid Oxidizers	Joe Alexander Andrew Igor Michael	Hooper Dolgoborodov Streletskii Kolbanev Makhov	NSWC, IHDIV Semenov Institute Of Chemical Physics RAS
34810	On The Detonation Chemistry Of Boron	Joseph Sorin Jonathan Nicolas	Zaug Bastea Crowhurst Teslich	LLNL
34848	Effect Of Aluminum Particle Size And Mass Fraction On Detonation In Nitromethane	Yukio Kenji	Kato Murata	Nippon-koki Co., Ltd.
34855	Interpretations Of Emission Measurements From Aluminized Explosive Fireballs	Jennifer	Peuker	University Of Illinois
35210	Underwater Blast Experiments And Modeling For Shock Mitigation	Lee Larry Vandersall	Glascoe McMichael Kevin	LLNL
35790	Modeling Explosives With High Metal Concentrations Using Particle Volumes In SHAMRC	Mike	Anderson	Applied Research Associates
36914	Initiation And Detonation Properties Of Various Explosives	John Raul Jan Jerry	Molitoris Garza Batteux Forbes	LLNL  ETC
37012	Non-ideal Detonation Of Ammonium Nitrate And Activated Carbon Mixtures In Steel Pipes	Atsumi Naoki Shiro Tei Yuji	Miyake Kinoshita Kubota Saburi Ogata	Yokohama National University National Institute Of Advanced Industrial
37019	Development Of An Initiation Train Characterisation Test	Andrew Matthew	Stoodley Maisey	Atomic Weapons Establishment Plc
37022	Improving The Material Response For Slow Heat Of Energetic Materials	Albert	Nichols	LLNL
37133	Performance evaluation of Diaminoazoxyfurazan (DAAF) as a booster material for the plastic bonded explosive PBX 9502 using the Onionskin Test	John	Morris	LANL
37232	MODELLING OF A SUITE OF ALUMINISED EXPLOSIVES EXPERIMENTS	Alec	Milne	FGE
37386	Some Mesoscale Implications Of The CREST Reactive Burn Model	Brian Brian Caroline	Lambourn Lambourn Handley	AWE

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37668	Testing And Modeling Of PBX 9501 Shock Initiation	Kin Kin Timothy Alan Peter Gary	Lam Lam Foley Novak Dickson Parker	LANL
37734	Jack Rabbit Investigation Of TATB IHE Detonation Chemical Kinetics	Mark Mark	Hart Hart	LLNL
37858	Statistical Hot Spot Modeling Of Particle Size And Initial Temperature Effects On	Albert Craig	Nichols Tarver	LLNL
38691	ELECTROMAGNETIC EFFECTS ON EXPLOSIVE REACTION AND PLASMA	Douglas Douglas Von	Tasker Tasker Whitley	LANL
38727	Unreacted Equations Of State Of LLM-105 And TATB	Jared Chad Brian Benjamin Jason	Gump Stoltz Mason Freedman Ball	NSWC, IHDIV  Naval Research Enterprise Intern
39941	Laser Initiation Explosive Decomposition Of Mixture Of Pentaerythrite Tetranitrate And Ni-C Nanoparticles	Boris	Aduev	KB ISSChM SB RAS
39946	CHARACTERIZATION OF IGNITION THRESHOLD OF PBXN-110 USING	Vasant Clinton	Joshi Richmond	NSWC, IHDIV
40459	THE EFFECT OF DOPANT ON THE LASER IGNITION SENSITIVITY OF	Emma Xiao	Burke Fang	Cranfield University
40905	Small-Scale Testing For Development Of Explosives	Joshua	Felts	NSWC, IHDIV
41284	DDT Of Hot, Thermally Damaged PBX 9501 In Heavy Confinement	Gary Peter Blaine John	Parker Dickson Asay McAfee	LANL
41453	A Novel Technique To Study Build Up To Detonation From An Attenuating Shock Wave In 1D Explosive Experiments	Malcolm	Burns	AWE Plc
41603	Anisotropic Material Model And Wave Propagation Simulations For Shocked PETN Single Crystals	Michael Michael Yogendra	Winey Winey Gupta	Washington State University
41653	Determination Of Detonation Parameters In Tetranitromethane/metanole Mixtures By Electromagnetic Method	Alexander Alexander Sergey Victor Vasily	Ananin Ananin Koldunov Garanin Sosikov	Institute Of Problems Of Chemical Physics RAS
42787	Measure Of Quasistatic Toughness And Fracture Parameters For Explosive Mock And LX-17	Louis Franco Bruce	Ferranti, Jr. J. Gagliardi J. Cunningham	LLNL
43025	Initiation Properties Of Nanocrystalline RDX Based Explosive Compositions	Victor	Stepanov	US Army, ARDEC
44075	Initiation Of Detonation In Deuterated Nitromethane: A Rigorous Test Of The	Damian Roberta	Swift Mulford	LLNL LANL
44360	Comprehensive Characterization Of Voids And Microstructure In TATB-based Explosives From 10nm To 1cm	Trevor Lisa Thomas	Wiley Lauderbach Lorenz	LLNL

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		Franco Robert George	Gagliardi Call Overturf	
44549	Exploring Athermal Initiation Mechanism Of Azides	Riad George	Manaa Overturf	LLNL
44866	Shear Localization In Compressed Energetic Materials	Neil Peter Alec	Bourne Dickson Milne	AWE LANL FGE
45122	Mesoscopic Investigations Of The Deformation And Initiation Mechanisms Of A HMX-based Pressed Composition	Hervé Philippe	TRUMEL LAMBERT	CEA, DAM, Le Ripault Sciences Et Applications Co.
45381	PBRB Model Integration With Wave Propagation Code And Performance Evaluation	Sunil Yasuyuki	Dwivedi Horie	University Of Florida AFRL/RWME
45610	MODELING SOLID STATE DETONATION AND REACTIVE MATERIALS	Sunhee Scott Mark Matthew David	Yoo Stewart Lieber Szuck Lambert	University Of Illinois At Urbana And Champaign AFRL
45754	DETONATION WAVE PARAMETERS IN NITROMETHANE/METHANOL AND FEFO/NITROBENZENE	Valentina Sergey Alexander	Mochalova Torunov Utkin	Institute Of Problems Of Chemical Physics
45959	Anisotropic Plastic Flow In Single Crystal Explosives	Kyle Daniel	Ramos Hooks	LANL
46354	CHARACTERISTIC MELT TIMES AND ONSET OF REACTION FOR ALUMINIZED EXPLOSIVES	LEONARD ERNEST	STIEL BAKER	POLYTECHNIC INSTITUTE OF NYU US ARMY ARDEC
46471	Precursor Detonation Wave Development In ANFO Due To Aluminum Confinement	Scott	Jackson	LANL
46709	Frictionally induced ignition processes in drop and skid tests	PETER GARY ALAN	DICKSON PARKER NOVAK	LANL
46937	Atomistic Simulations Of Chemical Reactivity Of TATB Under Thermal And Shock Conditions	Riad Evan Laurence	Manaa Reed Fried	LLNL
46944	Instrumented Small-scale Gap Testing Of Booster Compositions	Chris Peter Steve	Stennett Bolton Wortley	Cranfield University AWE
47258	Critical Velocities For Deflagration And Detonation In A REBO High Explosive	Stuart Timothy Niels	Herring Germann Gronbech-Jensen	LANL University Of California, Davis
47891	Major Effects In The Thermodynamics Of Detonation Products: Phase Segregation Vs	Sorin Laurence	Bastea Fried	LLNL
48716	State of the Art of Predictive Fragment Impact Initiation Modeling	John Douglas	Starkenber Kooker	American Systems Corporation
49619	CONDUCTIVE IGNITION MODELING FOR ENERGETIC MATERIAL	Rohan Scott	Banton Kukuck	ARL



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50049	Modelling Detonation Propagation And Failure In PBX 9502 Explosive Using CREST	Nicholas Nicholas Caroline	Whitworth Whitworth Handley	AWE
50586	New High Energy Oxidizers: A QM Study	Henric	Östmark	Nanyang Technical University
50803	Detonation Failure In Small Cylindrical LX-17 Charges	Thomas	Lorenz	LLNL
50991	Effect Of Ammonium Perchlorate Grain Size In Mixture With Nitromethane On Detonation Velocity	Eric Henri-Noel Laurence Boris Robert	Bouton Presles Pagnanini Khasainov Belmas	CEA Le Ripault CNRS CEA Le Ripault
51124	Applications Of Photon Doppler Velocimetry To Explosives Testing	Matthew Larry Lawrence Michael	Briggs Hill Hull Shinas	LANL
51162	NON-SHOCK IGNITION OF HMX-BASED HIGH EXPLOSIVES: THERMO-MECHANICAL NUMERICAL STUDY	Didier	PICART	CEA DAM
51178	Modeling Oblique Initiation Of Insensitive Explosives	Charles Michael	Mader Gittings	Mader Consulting Co Consultant
52157	Advances In Modeling Exploding Bridgewire Initiation	Constantine John	Hrousis Christensen	LLNL
52159	A Confined Small-scale Deflagration Cylinder Test For Violence Mapping And Model Development	Daniel	Hooks	LANL
52785	Mach Reflections From High Explosive (HE)- Driven Blast Waves	W. Michael	Howard	LLNL
52983	Calculating Hugoniot For Molecular Crystals From First Principles	Ann E Ryan R Thomas R	Mattsson Wixom Mattsson	SNL
54141	Non-Shock Initiation Model For High Explosive Families	Steven Mark Terry	Todd Anderson Caipen	SNL SNL Applied Research Associates Inc.
54430	An Effect Of The Reaction Light Absorption On The Formation Of The Detonation Reaction Zone 3D-Structure in PBXs	Igor Luis Svyatoslav Jose Andrade Ricardo Jose Manuel	Plaksin Rodrigues Plaksin Campos Mendes Ribeiro	ADAI and LEDAP, University Of Coimbra
54658	Study Of Energy Focusing Phenomenon In Explosion Systems Which Include High Modulus Elastic Elements	Igor	Balagansky	Novosibirsk State Technical University
54900	The High-Pressure Characterization Of High Nitrogen Energetic Materials: 5-Aminotetrazolium Nitrate	Jennifer	Ciezak	ARL
55145	Ignition And Detonation Characteristics Of Silver Azide Pellets	Yuichiro	Hamate	Tohoku University
55363	Small-Scale Internal Blast Measurements And Predictions	Richard Harold	Granholm Sandusky	NSWC, IHDIV

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56090	Response Of Reactive Material Packets In Situ To Detonation	John Raul Alex Joe Jan Brad Rich Brian Jerry	Molitoris Garza Gash Tringe Batteux Wong Villafana Cracchiola Forbes	LLNL        ETC
57071	Sub-sonic Thermal Explosions Investigated By Radiography	Laura Bryan Blaine Jerry Gary Andy Frank Cynthia Chris	Smilowitz Henson Asay Romero Grim Saunders Merrill Schwartz Morris	LANL
57683	Plasmonic Enhancement Of Direct Optical Initiation	David Steven Anna Adrian	Moore Clarke Giambra Akinci	LANL
58578	Macroscopic Crack Formation And Extension In Pristine And Artificially Aged PBX 9501	Cheng	Liu	LANL
58704	Numerical Simulations Of Shock-induced Void Collapse In Liquid Explosives	Louisa Nikos	Michael Nikiforakis	University Of Cambridge
59378	Mesoscale Modelling Of Plastic Bonded Explosives	Caroline Caroline	Handley Handley	AWE
61072	Application Of A Four-Step Kinetic Model To An Impact-Induced Friction Ignition Problem	Lee	Perry	LANL
61730	The Surface Quasiliquid, Melt Acceleration And The Role Of Thermodynamic Phase In	Bryan Laura	Henson Smilowitz	LANL
62715	A Comparison Of Formulation Parameters And The Initiation Response RDX-Based PBXs	Sally Chris Gary Paul	Gaulter Stennett Cooper Hazell	Cranfield University
63361	PBXN-109 Gap Test Studies For Different RDX Fills Without And With Aging	Harold Joshua	Sandusky Felts	NSWC, IHDIV
63416	Reactive Flow Modeling Of Liquid Explosives Via ALE3D/Cheetah Simulations	I-Feng Sorin Laurence	Kuo Bastea Fried	LLNL
63533	Three-Dimensional Ignition And Growth Modeling Of Confined And Hot Prism	Mark Craig	Garcia Tarver	LLNL
63746	Three-Dimensional Magnetohydrodynamic Simulation Of Slapper Initiation Systems	John Constantine	Christensen Hrousis	LLNL
64636	3D Modeling Of Shaped Charge Jet Penetration Through High Explosives	Benjamin Philip Hans Gregg Cyrus Michael	Liu Pincosy Aichlemayr Mannell Harrison Murphy	LLNL

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65937	Modeling Of The Large Scale And Expanded Large Scale Gap Test With The CTH Hydrocode	Gerrit	Sutherland	NSWC, IHDIV
66441	Interaction Of Highly Non-ideal Detonations With High Sound Speed Confinement	Gary	Sharpe	University Of Leeds
66782	Frictional Properties Of Explosive Single Crystals Of HMX, RDX And PETN And A Model Of Impact ignition by frictional heating	M Munawar Yan-Qing	Chaudhri Wu	University Of Cambridge Beijing Institute Of Technology
67139	Shock Initiation Experiments On Ratchet Grown PBX 9502	R.L. D.G. B.W. R. B.D. N.J.	Gustavsen Thompson Olinger DeLuca Bartram Sanchez	LANL
67871	A Streamline Approach To Steady Non-Ideal Detonation Theory	Simon Simon Gary Sam William Martin	Watt Watt Sharpe Falle Byers Brown Braithwaite	University Of Leeds Mass Action Research Consultancy Imperial College
67981	Effects Of The Microstructure And Crystal Orientation On The Shock Response Of B-	Suvranu Amir Reza	De Zamiri	Rensselaer Polytechnic
68266	Mesoscale Modeling Of Metal-loaded High Explosives	D. Scott Brandon D. Scott John B.	Stewart Lieberthal Stewart Bdzil	University Of Illinois
68552	Observations In Explosive Systems With High-Speed Digital Image Correlation	Marcia Phillip Timothy	Cooper Reu Miller	SNL
68779	DETONATION TRANSFORMATION TIME AT THE PRESENS OF TRANSVERSE	S. Yu.	Rybanin Mikhailov	Institute Of Problems Of
68781	Energetic Materials For Integration On Chip	Luke Wayne Collin Leela Mohana Pulickel Christopher	Currano Churaman Becker Reddy Ajayan Morris	ARL University Of Colorado, Boulder Rice University ARL
70119	Unreacted Equation Of State Development And Multiphase Modeling Of Dynamic Compaction Of Low Density HEXANITROSTILBENE (HNS) PRESSINGS	Aaron	Brundage	SNL
71229	DETONATION EQUATION OF STATE PARAMETERS CALCULATED FROM	OLIVIER GERARD	HEUZE BAUDIN	CEA DGA/CEG
72397	On The Quantitative Measurement Of Fracture Toughness In High Explosive And Mock Materials	Cheng Carl Philip	Liu Cady Rae	LANL
72833	Hybrid Detonation Waves In Metalized	Fan	Zhang	Defence RandD

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	Explosive Mixtures	Akio	Yoshinaka	Canada - Suffield
73828	Development, Performance And Use Of Direct Write Explosive Inks	Brian Amy Paula Daniel	Fuchs Wilson Cook Stec	ARDEC   SAIC
75048	Time-resolved And Equilibrium Decomposition Products Of Energetics From Resonant Laser Excitation	Jeremy	Monat	NSWC, IHDIV
75129	SIMULATION OF INITIATION AND DETONATION PROPAGATION IN	Rohan Frank	Banton Van Swol	ARL SNL
75135	Calibration Of An Explosive Initiation Model For Composition A3 Type II	Douglas	Kooker	American Systems Corp
75278	Reactive Blast Waves From Composite Charges	Allen L. John B. Vincet E.	Kuhl Bell Beckner	LLNL Lawrence Berkeley National Laboratory
75347	Particle Velocity Measurements Of The Detonation Zone In Cylinder Expansion Tests Of Isopropyl Nitrate	John Steve Akio	Fowler Sheffield Yoshinaka	DRDC Suffield LANL DRDC Suffield
75509	Measurements of SAXS signal during TATB detonation using Synchrotron radiation	Konstantin Vladimir Edward Leonid Yuriy Evgeniy Alexandr Ivan Boris	Ten Titov Pruuel Lukyanchikov Aminov Smirnov Muzyrya Zhogin Tolochko	Lavrentyev Institute Of Hydrodynamic SB RAS   RFNC VNIITF   Institute Of Solid State Chemistry
75512	Jetting Instabilities From Explosive Dispersal Of Particles	Robert Fan	Ripley Zhang	Martec Ltd DRDC Suffield
76329	Particle-Based Mesoscale Modeling Of The Dynamic Response Of Energetic And Reactive Materials	John Martin	Brennan Lisal	ARL Institute Of Chemical Process Fundamentals
76826	Effect Of Prill Structure On Detonation Performance Of ANFO	Terry Mark Charles John Tony	Salyer Short Kiyanda Morris Zimmerly	LANL    New Mexico Tech
76903	Initiation Of Pentaerythritol Tetranitrate Using A Fast And High Power Arc Source	Christian Vincent James Elizabeth	Grant Tang McCarrick Glascoe	LLNL   
78107	Determination Of Second-Order Elastic Constants Of HE Single Crystals Using Impulsive Stimulated Thermal Scattering	Michael Baozhou Michael Yogendra Dan Keith	Winey Sun Winey Gupta Hooks Nelson	Washington State University    LANL Massachusetts Institute Of Technology
78453	Creep Measurements On Plastic Bonded Explosives	Bruce Franco	Cunningham Gagliardi	LLNL

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		Constantine Ian	Hrousis Darnell	
78572	Dn(k) Calibration From Diameter Effect Data	Yehuda	Partom	RAFAEL
78653	Probabilistic Shock Initiation Thresholds And QMU Applications	Micha Constantine	Gresshoff Hrousis	LLNL
79090	Towards A Fundamental Understanding Of The Thermomechanical Response Of Damaged Propellants	David	Williamson	University Of Cambridge
79139	Observation Of Off-Hugoniot Shocked States With Ultrafast Time Resolution	Michael Jonathan Sorin Joseph	Armstrong Crowhurst Bastea Zaug	LLNL
79238	Photographic Observation Of Low Velocity Detonation In Nitromethane Affected By Precursor Shock Wave	Hideki Hideki Shigeru Yukio	Hamashima Hamashima Itoh Kato	Kumamoto Industrial Research Institute Nippon Koki Co., Ltd.
79678	A Constitutive Model For Long Time Duration Mechanical Behavior In Insensitive High Explosives.	Ian Ian Sejin Constantine Bruce Franco	Darnell Darnell Oh Hrousis Cunningham Gagliardi	LLNL
79718	Short Pulse Shock Initiation Experiments And Modeling On LX-16, LX-10, And	Craig Chadd	Tarver May	LLNL
80400	Fragment Impact Of Energetic Materials – A Review Of Experimental Studies And An	Malcolm Peter	Cook Haskins	Qinetiq QinetiQ
83695	The True Detonation Limits On Concentration Of Nitromethane Mixtures With Methanol And Nitrobenzene	Sergey	Koldunov	Institute Of Problem Of Chemical Physics RAS
84788	On Acceleration Ability Of Aluminized High Explosives In Different Gas-Dynamic Conditions	Vitaly YU. Davydov	No	Research Institute Of Mechanical Ingeneering
84796	Inkjet Printing Of Nanocomposite High-Explosive Materials	Andrew Woo Brian Anne Victor Philip Anthony	Ihnen Lee Fuchs Petrock Stepanov Samuels Di Stasio	Stevens Institute Of Technology ARDEC
85097	Propagation Of Reactions In Thermally-damaged PBX-9501	Joseph Joseph Elizabeth James Trevor Harry Daniel John Laura Bryan	Tringe Tringe Glascoe Kercher Willey Springer Greenwood Molitoris Smilowitz Henson	LLNL         LANL

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85565	A Reactive Burn Model For Shock Initiation In A PBX: Scaling And Separability Based	M. Sam Ralph	Shaw Menikoff	LANL
86039	A Particle-Image Velocimeter For Measuring The Output Of High-Energy Explosives	Michael Ronald	Murphy Adrian	LANL Arizona State University
86150	An Improved Reaction Rate Equation For Simulating The Ignition And Growth Of Reaction In High Explosives	Steven Michael	Clarke Murphy	LANL LLNL
86343	Shock Initiation And Detonation Study On High Concentration H2O2/H2O Solutions Using In-situ Magnetic Gauging	Stephen Dana David Lee Brian	Sheffield Dattelbaum Stahl Gibson Bartram	LANL
86783	ELECTRICAL CONDUCTIVITY PROFILES IN DETONATING LOW-DENSITY	Alexander Natalia	Ershov Satonkina	Lavrentyev Institute Of Hydrodynamics
86866	Al-Teflon Reactions Under Extreme Conditions	Santanu Martin	Chaudhuri Losada	Washington State University
87186	Emission Spectroscopy To Examine Shock-Induced Decomposition Of RDX Crystal:	Zbigniew Nhan	Dreger Dang	
87647	Detonation Velocity Measurements For Primary Explosives	Theodore Neha Eugene Kin Joel Akash Kimberly Karl	Dolch Mehta Homentowski Yee Rivera Shah Griswold Oyler	U.S. Army
88086	FORMIC ACID EFFECTS ON THE PREDICTION OF HIGH EXPLOSIVE DETONATION PROPERTIES	Ernest	Baker	ARDEC
88944	Characterization Of Energetic Formulations Optimized For Optical Initiation	Jonathan Bryce Dave Nathan	Zucker Tappan Oschwald Burnside	LANL
89481	Simulation Of Underwater Sympathetic Reation Tests For PBXW-115 (Aust)	Jing-Ping	Lu	Defence Science And Technology Organisation Victoria University
90816	Measurement Of Material Properties Of Damaged Energetic Materials	Michael Peter Gary Martin Steven Libby Keo Jon	Chung Hsu Hust Dehaven Chidester Glascoe Springer Maienschein	LLNL
90924	Investigations Of Initiation Spot Size Effects	Steven Steven Adrian Gary Alan Timothy	Clarke Clarke Akinci Liechty Munger Schaefer	LANL

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		Keith	Thomas	
91374	Deformation, Fracture And Mechanical Properties Of PBX Under Dynamic Loading By Using Digital Speckle Correlation Method	Zhongbin Pengwan Shaopeng	Zhou Chen Ma	Beijing Institute Of Technology
91449	Numerical And Experimental Studies Of PBXN-109 Sympathetic Reaction	Jing-Ping	Lu	Defence Sceience And Technology Organisation
91862	Simulation Of Detonation Of ANFO Mixture Confined By Aluminium: Edge Angles For DSD	Charles Charles Mark Scott	Kiyanda Kiyanda Short Jackson	LANL
92942	A Combined Experimental And Numerical Simulation Investigation Into The Properties Of An HTPB based PBX Binder	Scott	Bardenhagen	Wasatch Molecular, Inc.
94085	State Of The Art Of Predictive Sympathetic Detonation And Fragment Impact Initiation Modeling	John	Starkenber	American Systems Corporation
94734	Controlling The Microstructure Of Vapor-Deposited Pentaerythritol Tetranitrate (PETN) Films	Robert Alexander Ryan	Knepper Tappan Wixom	SNL
95125	Shock Desensitization In Explosives: An Exploration Of Two Competing Hypotheses	Hugh Brian	James Lambourn	AWE
95585	Comparison Of The Growth Of Pore And Shear Band Driven Detonation	Albert	Nichols	LLNL
96242	Deflagration Rates And Molecular Bonding Trends Of Secondary Explosives Under Static MPa - GPa Press	Joseph	Zaug	LLNL
96894	Phase Transition Behavior And Defect Structures Of RDX Through Molecular Dynamics	Peter Lynn  Betsy Santiago	Chung Munday  Rice Solares	ARL ARL/University Of Maryland ARL University Of Maryland
97826	Non-Shock Initiation Model For Explosive Families: Experimental Results	Mark  Steven Terry  Charlie Chance	Anderson  Todd Caipen  Jensen Hughs	Sandia National Laboratoies SNL Applied Research Associates SNL North Vector
98425	Deflagration And Thermal Decomposition Measurements Of Three Insensitive High Explosives: LLM-105, TATB, and DAAF	Elizabeth Peter Jon Martin Noel Heidi	Glascoc Hsu Maienschein DeHaven Tan Turner	LLNL
98667	Extended Lagrangian Molecular Dynamics Simulations Of Shock-induced Chemistry In Hydrocarbons	Edward Edward Nicolas William M.	Sanville Sanville Bock Challacombe	LANL

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		Anders Marc Thomas D.	Niklasson Cawkwell Sewell	University Of Missouri-Columbia
		Dana Stephen	Dattelbaum Sheffield	LANL
98716	Studies Of Multi-wave Structures In Picosecond Shock Loaded Explosives And Inert Simulants Using Ultra - fast Dynamic Ellipsometry	Von Shawn Daniel Cynthia David	Whitley McGrane Eakins Bolme Moore	LANL
98721	A Self-consistent Multiscale Method For Modeling The Nonlinear Mechanical Response Of Polymer Bonded Explosives	Rahul Amir Suvranu	. Zamiri De	Rensselaer Polytechnic Institute (RPI)
98985	Wire Gauge For Tracing Wave Development And Detonation Corner Turning	Bradley Adam Alan Jonathan Gary Peter Timothy	Skidmore Trebs Novak Zucker Parker Dickson Foley	LANL