

► Energetic and advanced protective materials

Peer reviewed publications

Nanothermites

LAFONTAINE, E. (DGA); COMET, M. (ISL)

First published 2016 in Great Britain and the United States by ISTE Ltd and John Wiley & Sons, Inc.

ISBN 978-1-84821-837-6; © ISTE Ltd 2016

ISL-PR-U-PU-6007/2017

Effect of heat treatments on the microstructure of an ultrafine-grained Al-Zn-Mg alloy produced by powder metallurgy

QUEUDET, H. (ISL); LEMONNIER, S. (ISL); BARRAUD, E. (ISL); GHANBAJA, J. (UNIV. LORRAINE, NANCY); ALLAIN, N. (UNIV. LORRAINE, METZ); GAFFET, E. (UNIV. LORRAINE, NANCY)

Materials Science & Engineering A 685 (2017) 71-78

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ISL-PR-U-PU-6008/2017

One-step consolidation and precipitation hardening of an ultrafine-grained Al-Zn-Mg alloy powder by Spark Plasma Sintering

QUEUDET, H. (ISL); LEMONNIER, S. (ISL); BARRAUD, E. (ISL); GUYON, J. (UNIV. LORRAINE, METZ, FR); GHANBAJA, J. (UNIV. LORRAINE, NANCY); ALLAIN, N. (UNIV. LORRAINE, METZ); GAFFET, E. (UNIV. LORRAINE, NANCY)

Materials Science & Engineering A 685 (2017) 227-234

© 2017 Elsevier B.V.

ISL-PR-U-PU-6009/2017

Microstructure and mechanical properties of AZ91 magnesium alloy developed by Spark Plasma Sintering

MONDET, M. (ISL); BARRAUD, E. (ISL); LEMONNIER, S. (ISL); GUYON, J. (UNIV. LORRAINE, METZ, FR); ALLAIN, N. (UNIV. LORRAINE, METZ, FR); GROSDIDIER, T.

Acta Materialia 119 (2016) 55-67

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ISL-PR-U-PU-6013/2017

Surface functionalization and electrical discharge sensitivity of passivated Al nanoparticles

KLAUMÜNZER, M. (ISL); HÜBNER, J. (ISL); SPITZER, D. (ISL); KRYSCHI, C. (ICMM, ERLANGEN, DE)

ACS Omega 2017, 2, 52-61 - DOI: 10.1021/acsomega.6b00380

© 2017 American Chemical Society

ISL-PR-U-PU-6018/2017

Insights into combustion mechanisms of variable aluminum-based iron oxide/-hydroxide nanothermites

HÜBNER, J. (ISL); KLAUMÜNZER, M. (ISL); COMET, M. (ISL); MARTIN, C. (ISL); VIDAL, L. (CNRS UMR7361, MULHOUSE, FR); SCHÄFER, M. (ISL); KRYSCHI, C. (ICMM, ERLANGEN, DE); SPITZER, D. (ISL)

Combustion and Flame 184 (2017) 186DS194, 2017

© The Combustion Institute. Published by ELSEVIER Inc.

ISL-PR-U-PU-6045/2017

Influence of molecular vibrational energy accommodation modeling on cone surface heat flux at Mach 10

HRUSCHKA, R. (ISL); SAUERWEIN, B. (ISL)

Journal of Energy and Power Engineering 10 (2016) 660-666 ; doi: 10.17265/1934-8975/2016.11.002

ISL-PR-PU-6046/2017

Application of the Crystallo-Calorific Hardening approach to the constitutive modeling of the dynamic yield behavior of various metals with different crystalline structures

FRANCART, C. (ISL); DEMARTY, Y. (ISL); BAHLOULI, N. (UNISTRA); AHZI, S. (ULP)

International Journal of Impact Engineering, 109 (2017), pp. 52-66; doi.org/10.1016/j.ijimpeng.2017.05.015

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ISL-PR-U-PU-6101/2017

Dynamic characterization and modeling of ductile failure of sintered aluminum alloy through shear-compression tests

FRANCART, C. (ISL); DEMARTY, Y. (ISL); BAHLOULI, N. (UNISTRA); AHZI, S. (ULP)

DYMAT - 23rd Technical Meeting on Dynamic Fracture of Ductile Materials, Procedia Engineering 197 (2017) 69 - 78

ISL-PR-PU-6102/2017

Propellants reactivity enhancement with nanothermites

BERTHE, J.-E. (ISL); COMET, M. (ISL); SCHNELL, F. (ISL); SUMA, Y. (ISL); SPITZER, D. (ISL)

Propellants, Explosives, Pyrotechnics, Volume 41, Issue 6, December 2016, pp. 994-998 - DOI: 10.1002/prop.201600029

© 2016 Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim

ISL-U-PU-6001/2017

Aerodynamic study for capability increase of a spin-stabilized projectile fitted with fins

DECROCO, C. (ISL); MARTINEZ, B. (ISL); JUNCKER, J. (ISL); BERNER, C. (ISL); LEOPOLD, F. (ISL); BAILLY, Y. (FEMTO); ROY, J.-C. (FEMTO)

2016 Applied Aerodynamics Conference: Evolution & Innovation Continues - The Next 150 Years of Concepts, Design and Operations, Royal Aeronautical Society, Bristol, GB, July 19 - 21, 2016

ISL-PU-6002/2017

Nanothermite foams: From nanopowder to object

COMET, M. (ISL); MARTIN, C. (ISL); SCHNELL, F. (ISL); SPITZER, D. (ISL)

Chemical Engineering Journal 316 (2017) 807-812

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ISL-U-PU-6014/2017

Nanomaterialien für die moderne Wehrtechnik

KLAUMÜNZER, M. (ISL); SPITZER, D. (ISL)

Deutsche Gesellschaft für Wehrtechnik I/2017 - ISSN 0043-2172

© Wehr und Wissen Verlagsgesellschaft GmbH

ISL-U-PU-6016/2017

In-pipe aerodynamic characteristics of a projectile in comparison with free-flight for transonic Mach numbers between 0.5 and 1.5

HRUSCHKA, R. (ISL); KLATT, D. (ISL)

31st International Symposium on Shock Waves (ISSW31), Nagoya, Japan, July 9-14, 2017

ISL-PU-6047/2017

Aluminum nanopowder: A substance to be handled with care

MARTIN, C. (ISL); COMET, M. (ISL); SCHNELL, F. (ISL); BERTHE, J.-E. (ISL); SPITZER, D. (ISL)

Journal of Hazardous Materials 342 (2018) 347-352 - http://dx.doi.org/10.1016/j.j.hazmat.2017.08.018

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ISL-U-PU-6069/2017

Synthesis of Nb₂O₅ and Ta₂O₅ nanopowders by means of an endo-templating method

GIBOT, P. (ISL); SCHNELL, F. (ISL); SPITZER, D. (ISL)

Ceramics International 43 (2017) 16451-16456 - http://dx.doi.org/10.1016/j.ceramint.2017.09.025

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ISL-U-PU-6078/2017

Terahertz spectroscopy of aged epoxy resin adhesive

SOMMER, S. (PHILIPPS-UNIVERSITÄT MARBURG); WINKEL, A. (UNIVERSITÄT KASSEL); ENGELBRECHT, S. (ISL);

TYBUSSEK, K.-H. (ISL); BÖHM, S. (UNIVERSITÄT KASSEL); BALZER, J. C. (PHILIPPS-UNIVERSITÄT MARBURG);

KOCH, M. (PHILIPPS-UNIVERSITÄT MARBURG); FISCHER, B.M. (ISL)

9th THz Days, Dunkerque, FR, June 12-15, 2017

ISL-PU-6093/2017

Trinitrotoluene nanostructuring by Spray Flash Evaporation process

SEVE, A. (ISL); PICHOT, V. (ISL); SCHNELL, F. (CNRS-NS3E); SPITZER, D. (ISL)
Propellants Explosives Pyrotechnics 2017, 42, 1051-1056; DOI: 10.1002/prop.201700024
© 2017 Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim
ISL-U-PU-6105/2017

Study of the elaboration of HMX and HMX composites by the Spray Flash Evaporation process

PICHOT, V. (ISL); SEVE, A. (ISL); BERTHE, J.-E. (ISL); SCHNELL, F. (CNRS-NS3E); SPITZER, D. (ISL)
Propellants Explosives Pyrotechnics 2017, 42, 1-7; DOI: 10.1002/prop.201700171
© 2017 Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim
ISL-U-PU-6106/2017

► Flight techniques for projectiles

Peer reviewed publications

Experimental investigations on a free-flying supersonic projectile model submitted to an electric discharge generating plasma

GNEMMI, P. (ISL); REY, C. (ISL)

30th International Symposium on Shock Waves 2, ISSW30 Volume 2, pp. 807-811 ; DOI 10.1007/978-3-319-44866-4_5

© Springer International Publishing AG 2017

ISL-PR-U-PU-6049/2017

A switched-beam conformal array with a 3-D beam forming capability in C-band

JAECK, V. (ISL); BERNARD, L. (ISL); MAHDJOUBI, K. (UMR CNRS 6164); SAULEAU, R. (UMR CNRS); COLLARDEY, S. (UMR CNRS); POULIGUEN, P. (DGA); POTIER, P. (DGA)

IEEE Transactions on Antennas and Propagation Vol. 65, No. 6, pp. 2950 - 2957 ; DOI: 10.1109/TAP.2017.2696418

© 2017 IEEE

ISL-PR-U-PU-6052/2017

Flight dynamics modeling of dual-spin guided projectiles

SEVE, F. (ISL); THEODOULIS, S. (ISL); WERNERT, PH. (ISL); ZASADZINSKI, M. (CRAN); BOUTAYEB, M. (CRAN)

IEEE Transactions on Aerospace and Electronics Systems, Volume 53, Issue 4, Aug. 2017 ; DOI: 10.1109/TAES.2017.2667820 / IEEE

© 2017 IEEE

ISL-PR-U-PU-6054/2017

Conception and manufacturing of a projectile-drone hybrid system

GNEMMI, P. (ISL); CHANGEY, S. (ISL); MEDER, K. (ISL); ROUSSEL, E. (ISL); REY, C. (ISL); STEINBACH, C. (ISL); BERNER, C. (ISL)

IEEE/ASME Transactions on mechatronics, Vol. 22, No. 2, April 2017

© 2017 IEEE

ISL-PR-U-PU-6057/2017

Mesures de pression par Peinture Sensible à la Pression en écoulement supersonique

GAUTHIER, TH. (ISL); WEIDNER, S. (ISL); MARTINEZ, B. (ISL)

Instrumentation Mesure et Métrologie - I2M, Vol. 16, n° 1-4/2017, pp. 105-131

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ISL-PR-U-PU-6079/2017

Gain-scheduled H-infinite loop-shaping autopilot design for spin-stabilized canard-guided projectiles

SEVE, F. (ISL); THEODOULIS, S. (ISL); WERNERT, PH. (ISL); ZASADZINSKI, M. (CRAN); BOUTAYEB, M. (CRAN)

Aerospace Lab Journal - Special issue on Design and Validation of Aerospace Control Systems, Issue 13, September 2017 ;

DOI: 10.12762/2017.AL13-03

ISL-PR-PU-6100/2017

Electronics and vision system of a projectile-drone hybrid system

CHANGEY, S. (ISL); ROUSSEL, E. (ISL); BERNARD, L. (ISL); SCHERTZER, S. (ISL); GNEMMI, P. (ISL)

IEEE Aerospace and Electronic Systems Magazine, Vol. 32, Issue 10, October 2017 ; DOI. No. 10.1109/MAES.2017.160019

© 2017 IEEE

ISL-PR-U-PU-6115/2017

Flight phases with tests of a projectile-drone hybrid system

GNEMMI, P. (ISL); CHANGEY, S. (ISL); WEY, P. (ISL); ROUSSEL, E. (ISL); REY, C. (ISL); BOUTAYEB, M. (CRAN); LOZANO, R. (HEUDIASYC)

IEEE Transactions on Control Systems Technology, August 2017 ; DOI: 10.1109/TCST.2017.2749559

© IEEE 2017

ISL-PR-U-PU-6116/2017

Influence of the spin of a projectile on its GPS results

STEFER, M. (ISL); BERNARD, L. (ISL); JASKULSKI, N. (ISL)

LAPC 2016 - 2016 Loughborough Antennas & Propagation Conference, Loughborough, 13-14 November, UK ;

DOI: 10.1109/LAPC.2016.7807514

© 2016 IEEE

ISL-U-PU-6010/2017

Instrumentation of the 40mm-projectile for roll rate and roll angle estimation

STEFER, M. (ISL); PECHEUR, E. (ISL); BERNARD, L. (ISL)

2016 IEEE 2nd International Forum on Research and Technologies for Society and Industry Leveraging a better tomorrow (RTSI), Bologna, IT, September 07-09, 2016 ; DOI: 10.1109/RTSI.2016.7740590

© 2016 IEEE

ISL-U-PU-6011/2017

Comparison of free flight base pressure measurements with CFD predictions

ALBISSER, M. (ISL); DOBRE, S. (ISL); BERNER, C. (ISL)

AIAA SciTech Forum 2017 - AIAA Atmospheric Flight Mechanics Conference, Grapevine/TX, US, January 09-13, 2017

AFM-06: Aircraft Flight Dynamics, Handling Qualities, and Performance I

ISL-PU-6015/2017

Système de contrôle d'antennes pour un réseau linéaire uniforme basé sur la radio logicielle

CAMPO, C. (STAGIAIRE); STEFER, M. (ISL); BOEGLIN, H. (UNIVERSITÉ DE POITIERS); BERNARD, L. (ISL); HENGY, S. (ISL); PAILLOT, J.-M. (UNIVERSITÉ DE POITIERS)

XXèmes Journées Nationales Microondes, Saint-Malo, FR, 16-19 mai 2017

ISL-PU-6035/2017

Antenne miniature en cavité circulaire à base de métasurfaces

GARCIA-GAMEZ, L. (STAGIAIRE); MARTINIS, M. (ISL - UMR CNRS 6164); BERNARD, L. (ISL); SAULEAU, R. (UMR CNRS); COLLARDEY, S. (UMR CNRS); MAHDJOUBI, K. (UMR CNRS 6164); POULIGUEN, P. (DGA); POTIER, P. (DGA)

XXèmes Journées Nationales Microondes, Saint-Malo, FR, 16-19 mai 2017

ISL-PU-6036/2017

Réseau circulaire compact de quatre antennes à métasurface

BERNARD, L. (ISL); GARCIA-GAMEZ, L. (STAGIAIRE); SAULEAU, R. (UMR CNRS); COLLARDEY, S. (UMR CNRS); MAHDJOUBI, K. (UMR CNRS 6164); POULIGUEN, P. (DGA); POTIER, P. (DGA); COVIC, H. (ISL)

XXèmes Journées Nationales Microondes, Saint-Malo, FR, 16-19 mai 2017

ISL-PU-6037/2017

Pressure measurements around an electric discharge produced on a wedge in a supersonic flow

GNEMMI, P. (ISL); REY, C. (ISL); SAUERWEIN, B. (ISL); BASTIDE, M. (ISL)

31st International Symposium on Shock Waves (ISSW31), Nagoya, JP, July 9-14, 2017

ISL-PU-6048/2017

Effects of a swirling flow motion on the supersonic near wake flow behind blunt-based afterbodies

WEIDNER, S. (ISL); HRUSCHKA, R. (ISL); REY, C. (ISL); LEOPOLD, F. (ISL); FROHNAPFEL, B. (KIT); SEILER, F. (ISL)

47th AIAA Fluid Dynamics Conference, Denver, CO/US, June 5-9, 2017

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ISL-U-PU-6050/2017

Supersonic wake flow analysis of finned projectile afterbodies at various spin rates

WEIDNER, S. (ISL); HRUSCHKA, R. (ISL); REY, C. (ISL); LEOPOLD, F. (ISL); SEILER, F. (ISL)

29th International Symposium on Ballistics, Edinburgh, Scotland, UK, May 9-13, 2016, pp. 272-283

ISL-PU-6051/2017

Numerical simulations of plasma discharges in supersonic flows

NEKRIS, A. (ISL); GNEMMI, P. (ISL); MUNDT, C. (UNIBW)

47th AIAA Fluid Dynamics Conference, Denver, CO/US, June 5-9, 2017

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ISL-U-PU-6053/2017

Road vehicle relative motion estimation using gyro-free IMUs and system independent observers

BRUNNER, T. (ISL); LEDY, J. (UNIVERSITÉ DE HAUTE-ALSACE); LAUFFENBURGER, J.P. (UNIVERSITÉ DE HAUTE-ALSACE); RUIZ, M.J. (ISL); CHANGEY, S. (ISL); LAMBERT, J. (UNIVERSITÉ DE HAUTE-ALSACE); BASSET, M. (UNIVERSITÉ DE HAUTE-ALSACE,)

IFAC 2017, 20th World Congress of the International Federation of Automatic Control, Toulouse, FR, July 9-14, 2017

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ISL-U-PU-6059/2017

Aerodynamic characterization of a new concept of long-range projectiles from free-flight data

ALBISSER, M. (ISL); DOBRE, S. (ISL); DECROCQ, C. (ISL); SAADA, F. (ISL); MARTINEZ, B. (ISL); GNEMMI, P. (ISL)

30th International Symposium on Ballistics, ISB, Long Beach, USA, September 11-15, 2017

This publication received the Louis and Edith Zernow Award from the International Ballistics Society.

ISL-PU-6064/2017

Accuracy-simplicity trade-off for miniature helicopter models

ROUSSEL, E. (ISL); GASSMANN, V. (ISL); LAROCHE, E. (UMR CNRS UNISTRA ICUBE)

6th Budding Science Colloquium, ISL, Saint-Louis, FR, June 21-22, 2017

ISL-PU-6080/2017

Nonlinear modeling of miniature helicopters: A comparative study based on flight data

ROUSSEL, E. (ISL); GASSMANN, V. (ISL); LAROCHE, E. (UMR CNRS UNISTRA ICUBE)

IFAC 2017, 20th World Congress of the International Federation of Automatic Control, Toulouse, FR, July 9-14, 2017

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ISL-U-PU-6082/2017

Design and manufacturing of a conformal antenna array on a conical surface at 5.2 GHz

JAECK, V. (ISL); BERNARD, L. (ISL); MAHDJOUBI, K. (UMR CNRS 6164); SAULEAU, R. (UMR CNRS); COLLARDEY, S. (UMR CNRS); POULIGUEN, P. (DGA); POTIER, P. (DGA)

European Microwave Week, Nuremberg, DE, October 8-13, 2017

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ISL-U-PU-6083/2017

Analysis of base pressure measurements in free flight

DOBRE, S. (ISL); ALBISSER, M. (ISL); BERNER, C. (ISL); SAADA, F. (ISL); MARTINEZ, B. (ISL); GNEMMI, P. (ISL)

68th Aeroballistic Range Association Meeting, Monterey/CA, US, September 17-21, 2017

ISL-PU-6089/2017

LPV modelling of the atmospheric re-entry vehicle in free flight

MACHALA, D. (ISL); ALBISSER, M. (ISL); DOBRE, S. (ISL); COLLIN, F. (UNIVERSITÉ DE LORRAINE); GILSON, M. (UNIVERSITÉ DE LORRAINE)

20th World Congress of the International Federation of Automatic Control, Toulouse, FR, July 9-14, 2017

ISL-PU-6090/2017

Antenna weighting system for a uniform linear array based on Software Defined Radio

CAMPO, C. (ISL); STEFER, M. (ISL); BOEGLIN, H. (UNIVERSITÉ DE POITIERS); BERNARD, L. (ISL); HENGY, S. (ISL); PAILLOT, J.-M. (UNIVERSITÉ DE POITIERS)

MMS-2017, 17th Mediterranean Microwave Symposium, Marseille, FR, November 28-30, 2017

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ISL-U-PU-6107/2017

Flight dynamics & control for smart munitions: The ISL contribution

THEODOULIS, S. (ISL); WERNERT, PH. (ISL)

IFAC 2017, 20th World Congress of the International Federation of Automatic Control, Toulouse, FR, July 9-14, 2017

IFAC, Volume 50, Issue 1, July 2017, pp. 15512-15517; doi.org/10.1016/j.ifacol.2017.08.2127

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ISL-U-PU-6108/2017

On the free flight behavior of a spinning projectile fitted with fins: a comparative study between twisted fins versus canted ones

DECROCQ, C. (ISL); MARTINEZ, B. (ISL); ALBISSER, M. (ISL); DOBRE, S. (ISL); GNEMMI, P. (ISL)

52nd 3AF International Conference on Applied Aerodynamics, Lyon, FR, March 27-29, 2017

ISL-PU-6110/2017

► Laser and electromagnetic technologies

Peer reviewed publications

Influence of powder physicochemical characteristics on microstructural and optical aspects of YAG and Er:YAG ceramics obtained by SPS

KATZ, A. (ISL); BARRAUD, E. (ISL); LEMONNIER, S. (ISL); SORREL, E. (ISL); BOEHLER, J. (ISL); BLANC, A. (ISL); EICHHORN, M. (ISL); D'ASTORG, S. (LMCPA); LERICHE, A. (LMCPA)
Ceramics International 43 (2017) 10673-10682 - <http://dx.doi.org/10.1016/j.ceramint.2017.04.114>
© 2017 Elsevier Ltd and Techna Group S.r.l.
ISL-PR-U-PU-6028/2017

Review of inductive pulsed power generators for railguns

LIEBFRIED, O. (ISL)
IEEE Transactions on Plasma Science, Vol. 45, Issue 7, pp. 1108-1114, July 2017
© 2017 IEEE
ISL-PR-U-PU-6039/2017

Role of LiF additive on spark plasma sintered transparent YAG ceramics

KATZ, A. (ISL); BARRAUD, E. (ISL); LEMONNIER, S. (ISL); SORREL, E. (ISL); EICHHORN, M. (ISL); D'ASTORG, S. (LMCPA); LERICHE, A. (LMCPA)
Ceramics International 43 (2017) 15626DS15634 - <http://dx.doi.org/10.1016/j.ceramint.2017.08.119>
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ISL-PR-U-PU-6071/2017

Fast semiconductor switching modules for transformer-coupled LC inversion generators

BISCHOFF, R. (ISL); BROMMER, V. (ISL); STOLL, M. (ISL); SCHARNHOLZ, S. (ISL)
IEEE Transactions on Plasma Science, Vol. 45, No. 10, pp. 2618-2622, October 2017
© 2017 IEEE
ISL-PR-U-PU-6077/2017

BALCO 6/7-DoF trajectory model

WEY, P. (ISL); CORRIVEAU, D. (DRDC, CANADA); SAITZ, T.A. (US ARMY RDECOM-ARDEC, USA); DE RUIJTER, W. (TNO DEFENCE, SAFETY AND SECURITY, NL.); STRÖMBÄCK, P. (FOI, SE)
29th International Symposium on Ballistics, Edinburgh, Scotland, UK, May 9DS13, 2016
© 2016 The International Ballistics Society, San Antonio/TX, USA
ISL-U-PU-6038/2017

Time-resolved on-axis spectroscopic stagnation temperature measurements in shock tunnel flows

BORCHERT, H. (ISL); BRIESCHENK, S. (ISL); SAUERWEIN, B. (ISL)
Colloque CMOI - FLUVISU 2017 - 20-24 mars 2017 - Le Mans, FR
ISL-PU-6065/2017

Improvement of the beam quality of a high-pulse-energy mid-infrared ZnGeP₂ FIRE OPO

SCHELLHORN, M. (ISL); SPINDLER, G. (WALDSHUT-TIENGEN, DE); EICHHORN, M. (ISL)
Nonlinear Optics (NLO) Conference, paper NM3B.8, Waikoloa Beach, Hawaii, USA, July 17 - 21, 2017
© OSA 2017
ISL-U-PU-6111/2017

High-pulse-energy mid-infrared ZnGeP₂ FIRE OPO

SCHELLHORN, M. (ISL); SPINDLER, G. (WALDSHUT-TIENGEN, DE); EICHHORN, M. (ISL)
9. Tagung Optik und Optronik in der Wehrtechnik, 25.09.-28.09.2017, WTD91 Meppen, DE
© dwt-sgw 2017
ISL-U-PU-6112/2017

► Protection technologies, security, situational awareness

Peer reviewed publications

Acoustic shooter localisation using a network of asynchronous acoustic nodes

HENGY, S. (ISL); DUFFNER, P. (ISL); DE MEZZO, S. (ISL); HECK, S. (ISL); GROSS, L. (ISL); NAZ, P. (ISL)
IET Radar, Sonar & Navigation, Volume 10, Issue 9, December 2016, pp.1528-1535 - DOI: 10.1049/iet-rsn.2016.0029
© The Institution of Engineering and Technology 2016
ISL-PR-U-PU-6004/2017

Multiple-wavelength range-gated active imaging principle in the accumulation mode for three-dimensional imaging

MATWYSCHUK, A. (ISL)
Applied Optics, Vol. 56, No. 3, January 2017
© 2017 Optical Society of America
ISL-PR-U-PU-6005/2017

Material classification using raw time-of-flight measurements

SU, S. (KAUST, UNIV. BRITISH COLUMBIA); HEIDE, F. (UNIV. BRITISH COLUMBIA AND STANF. UNIV.); SWANSON, R. (UNIV. BRITISH COLUMBIA); KLEIN, J. (ISL); CALLENBERG, C. (UNIVERSITY BONN); HULLIN, M. (UNIVERSITY OF BONN); HEIDRICH, W. (KAUST, UNIV. BRITISH COLUMBIA)
2016 IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2016, Las Vegas, NV, USA, June 27-30, 2016, pp. 3503-3511 - DOI: 10.1109/CVPR.2016.381
© IEEE Computer Society 2016
ISL-PR-U-PU-6006/2017

Defeat mechanisms provided by slotted add-on bainitic plates against small-calibre 7.62 mm x 51 AP projectiles

FRAS, T. (ISL); MURZYN, A. (TRAINEE); PAWLOWSKI, P. (INSTITUTE OF FUNDAMENTAL TECHNOLOGICAL RESEARCH, WARSAW, PL)
International Journal of Impact Engineering 103 (2017), pp. 241-253
© 2017 Elsevier Ltd.
ISL-PR-U-PU-6012/2017

Accumulation mode laser range-gated viewing in the eye-safe spectral region

LUTZ, Y. (ISL); BACHER, E. (ISL); SCHERTZER, S. (ISL)
Optics and Laser Technology 96 (2017), 1-6 - http://dx.doi.org/10.1016/j.optlastec.2017.04.031
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ISL-PR-U-PU-6024/2017

Sound localization models as evaluation tools for tactical communication and protective systems

JOUBAUD, T. (ISL); ZIMPFER, V. (ISL); GARCIA, A. (LABORATOIRE DE MÉCANIQUE...); LANGRENNE, C. (LABORATOIRE DE MÉCANIQUE...)
J. Acoust. Soc. Am. 141 (4), April 2017 - http://dx.doi.org/10.1121/1.4979693
© 2017 Acoustical Society of America
ISL-PR-U-PU-6026/2017

A study of the effect of aspect ratio on fragmentation of explosively driven cylinders

DE VUYST, T. (BRUNEL UNIVERSITY LONDON); VIGNJEVIC, R. (BRUNEL UNIVERSITY LONDON); CAMPBELL, J.C. (BRUNEL UNIVERSITY LONDON); KLAVZAR, A. (ISL); SEIDL, M. (ISL)
14th Hypervelocity Impact Symposium 2017, HVIS 2017, Canterbury, UK, April 24-28, 2017
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ISL-PR-PU-6040/2017

Numerical investigations on ricochet of a spin-stabilised projectile on armour steel plates

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A real time 3D video CMOS sensor with time gated photon counting

MATWYSCHUK, A. (ISL); BACHER, E. (ISL); METZGER, N. (ISL); UHRING, W. (UNIVERSITY OF STRASBOURG); NORMAND, J.-P. (UNIVERSITY OF STRASBOURG); MACIU, O. (UNIVERSITY OF STRASBOURG); MALASS, I. (UNIVERSITY OF STRASBOURG); DUMAS, N. (UNIVERSITY OF STRASBOURG)
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Thoracic response of post-mortem swine under blast loadings

BOUTILLIER, J. (UNIVERSITÉ DE STRASBOURG); DE MEZZO, S. (ISL); DECK, C. (UNIVERSITÉ DE STRASBOURG); MAGNAN, P. (ISL); NAZ, P. (ISL); WILLINGER, R. (UNIVERSITÉ DE STRASBOURG)
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KALTENECKER, K. (ISL); ZHOU, B. (TECHNICAL UNIVERSITY OF DENMARK); ENGELBRECHT, S. (ISL); FISCHER, B.M. (ISL); JEPSEN, P.U. (TECHNICAL UNIVERSITY OF DENMARK,)

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August 27- September 1, 2017

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Bridging the gap between the THz and IR frequency regimes

KALTENECKER, K. (ISL); ZHOU, B. (TECHNICAL UNIVERSITY OF DENMARK); STENGER, N. (TECHNICAL UNIVERSITY OF DENMARK); ENGELBRECHT, S. (ISL); FISCHER, B.M. (ISL); JEPSEN, P.U. (TECHNICAL UNIVERSITY OF DENMARK,)

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Evaluation of a decoupled feedforward-feedback hybrid structure for active noise control headphones in a multi-source environment

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Investigation of detection, tracking and neutralization of small unmanned aerial vehicles flying at low altitude

FISCHER, B.M. (ISL); LAURENZIS, M. (ISL); HENGY, S. (ISL); SCHMITT, R. (ISL); MERLAT, L. (ISL); NAZ, P. (ISL); CHRISTNACHER, F. (ISL)
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Femtosecond laser glass welding for micro processing

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Stabilization of silver nanoparticles with dyes for optical limiting

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Numerical investigations on ricochet of a spin-stabilised projectile on differently shaped target surfaces

SEIDL, M. (ISL); WOLF, TH. (ISL); NÜSING, R. (ISL)

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Numerical and experimental ricochet investigation of a spin-stabilised projectile

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