

► Energetic and advanced protective materials

Peer reviewed publications

Indicating inconsistency of desensitizing high explosives against impact through recrystallization at the nanoscale

M. KLAUMÜNZER, F. PESSINA, D. SPITZER

JOURNAL OF ENERGETIC MATERIALS - <http://dx.doi.org/10.1080/07370652.2016.1199610>

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ISL-PR-U-PU 6055/2016

Production of energetic nanomaterials by Spray Flash Evaporation

M. KLAUMÜNZER, J. HÜBNER, D. SPITZER

International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering, Vol. 10, No. 9, 2016

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ISL-PR-U-PU 6060/2016

On the mechanism of efficiency of lead azide

B. KHASAINOV*, M. COMET, B. VEYSSIERE*, D. SPITZER

Propellants, Explosives, Pyrotechnics - DOI: 10.1002/prop.201600075

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

ISL-PR-U-PU 6114/2016

High safety and reliability electric detonator

E. FOUSSON, A. RITTER, T. ARNOLD

Propellants, Explosives, Pyrotechnics 2016, 41, 870-874 - DOI: 10.1002/prop.201500310

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

ISL-PR-U-PU 6128/2016

Energetic nanocomposites for detonation initiation in high explosives without primary explosives

M. COMET, C. MARTIN, M. KLAUMÜNZER, F. SCHNELL, D. SPITZER

Applied Physics Letters 107, 243108 (2015)

© 2015 AIP Publishing LLC

ISL-U-PU 6019/2016

Influence of different plasticizers on the efficiency of a stabilizer in propellants

S. BRAUN, F. CISZEK, B. WANDERS, K.-T. HAN

47th International Annual Conference ICT, Karlsruhe, DE, June 28 - July 1, 2016

ISL-PU 6048/2016

Safer and performing energetic materials based on polyaniline-doped nanocomposites

P. GIBOT, A. BACH, L. VIDAL*, F. SCHNELL, R. GADIOU*, D. SPITZER

Journal of Energetic Materials, August 02, 2016, pp. 1-12 - [doi.org/10.1080/07370652.2016.1210697](http://dx.doi.org/10.1080/07370652.2016.1210697)

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ISL-U-PU 6125/2016

Free-flight tests of a medium caliber ammunition using an impulse thruster: Preliminary phase

E. FOUSSON, C. BERNER

29th International Symposium on Ballistics, Edinburgh, Scotland, UK, May 09-13, 2016

© The International Ballistics Society 2016

ISL-U-PU 6129/2016

* not member of ISL

► Flight techniques for projectiles

Peer reviewed publications

Instrumentation of the basic finned reference projectile for attitude measurements at supersonic velocities

L. BERNARD, R. ADAM, D. SCHMOLTZI, C. THOMAS, J. KREITZ, A. SCHNEIDER
IEEE Aerospace and Electronic Systems Magazine, Issue 31, Vol. 2, 2016
© IEEE 2016
ISL-PR-U-PU 6025/2016

Wideband antenna in cavity based on metasurfaces

M. MARTINIS, L. BERNARD, K. MAHDJOUBI*, R. SAULEAU*, S. COLLARDEY*
IEEE Antennas and Wireless Propagation Letters, Vol. 15, 2016, pp. 1053-1056
© IEEE 2015
ISL-PR-U-PU 6040/2016

A conical patch antenna array for agile point-to-point communications in the 5.2-GHz band

V. JAECK, L. BERNARD, K. MAHDJOUBI*, R. SAULEAU*, S. COLLARDEY*, P. POULIGUEN*, P. POTIER*
IEEE Antennas and Wireless Propagation Letters, Vol. 15, 2016, pp. 1230-1233
© IEEE 2015
ISL-PR-U-PU 6041/2016

Quaternion-based IMU and stochastic error modeling for intelligent vehicles

T. BRUNNER, J.-P. LAUFFENBURGER*, S. CHANGEY, M. BASSET*
2015 IEEE Intelligent Vehicles Symposium, Seoul, KR, June 28 - July 1, 2015
ISL-PR-PU 6044/2016

Miniature rectangular cavity antennas with circular polarization

M. MARTINIS, K. MAHDJOUBI*, R. SAULEAU*, S. COLLARDEY*, L. BERNARD, A. SCHNEIDER
EuCAP 2016, 10th European Conference on Antennas and Propagation, Davos, CH, April 10-15, 2016
© EurAAP / IEEE
ISL-U-PU 6027/2016

Design and characterization of a beam-steered CP antenna array with a circular geometry

L. GARCIA-GAMEZ, L. BERNARD, V. JAECK, A. SCHNEIDER
EuCAP 2016, 10th European Conference on Antennas and Propagation, Davos, CH, April 10-15, 2016
© EurAAP / IEEE
ISL-U-PU 6029/2016

Multiple MEMS-IMU localization: Architecture comparison and performance assessment

T. BRUNNER, S. CHANGEY, J.-P. LAUFFENBURGER*, M. BASSET*
International Conference on Integrated Navigation Systems (ICINS), St Petersburg, RU, May 25-27, 2015
ISL-PU 6043/2016

Multi-species simulations of plasma discharges in NLTE state in supersonic flows

A. NEKRIS, P. GNEMMI, C. MUNDT*
51st 3AF International Conference on Applied Aerodynamics, Strasbourg, FR, April 4-6, 2016
ISL-PU 6063/2016

ISL's advances in IMU/GPS navigation algorithms for projectiles

N. JASKULSKI, E. BIEBER, V. GASSMANN
Ballistik in Forschung und Technologie (BFT 2016), Mannheim, DE, 29/02/2016 - 02/03/2016
ISL-PU 6075/2016

GNSS receiver for guided artillery shell

N. JASKULSKI, E. BIEBER, E. PECHEUR
7^e Symposium franco-allemand sur les munitions, WTD 91 Meppen, DE, 20-22 septembre 2016
ISL-PU 6076/2016

* not member of ISL

Modelling and identification of a coaxial birotor UAV from scarce flight data

E. ROUSSEL, V. GASSMANN, E. LAROCHE

European Control Conference 2016 (ECC'16), Aalborg, DK, June 29 - July 01, 2016

ISL-PU 6077/2016

Conformal phased array in a small conical shape for communications at 5.2 GHz

V. JAECK, L. BERNARD, K. MAHDJOUBI*, R. SAULEAU*, S. COLLARDEY*, P. POULIGUEN*, P. POTIER*

2016 IEEE International Symposium on Phased Array Systems and Technology, Waltham/MA, US, October 18-21, 2016

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ISL-U-PU 6079/2016

Shock tunnels at ISL

P. GNEMMI, J. SRULIJES, F. SEILER, B. SAUERWEIN, M. BASTIDE, C. REY, P. WEY, B. MARTINEZ, H. ALBERS, G. SCHLÖFFEL, R. HRUSCHKA, T. GAUTHIER

Experimental Methods of Shock Wave Research - DOI 10.1007/978-3-319-23745-9_6

© Springer International Publishing Switzerland 2016

ISL-U-PU 6106/2016

Strategy for robust navigation and control of a coaxial birotor unmanned air vehicle

E. ROUSSEL, V. GASSMANN, E. LAROCHE

5th Budding Science Colloquium, ISL, Saint-Louis, FR, June 23-24, 2016

ISL-PU 6107/2016

Analysis of the Doppler shift due to pendulation and static spinning for projectile antennas

M. MILLA*, H. BOEGLER, L. BERNARD*, D. SCHMOLTZI, R. VAUZELLE*

IEEE 27th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Valencia, ES, September 04-08, 2016

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ISL-U-PU 6108/2016

Real-time computation onboard a projectile based on magnetometers

E. PECHEUR, S. CHANGEY, R. ADAM

Symposium Ballistik in Forschung und Technologie 2016, Mannheim, DE, 29.02.-02.03. 2016

ISL-PU 6109/2016

Real-time computation onboard a projectile based on magnetometers

E. PECHEUR, S. CHANGEY, R. ADAM

7^e Symposium franco-allemand sur les munitions, Meppen, DE, 20-22 septembre 2016

ISL-PU 6110/2016

In-flight roll angle estimation for a guided high spin projectile

R. ADAM, E. PECHEUR, L. BERNARD, S. CHANGEY

IEEE Sensors Applications Symposium 2016 (SAS 2016), Catania, IT, April 20-22, 2016

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ISL-U-PU 6111/2016

► Laser and electromagnetic technologies

Peer reviewed publications

High-pulse-energy mid-infrared fractional-image-rotation-enhancement ZnGeP₂ optical parametric oscillator

M. EICHHORN, M. SCHELLHORN, M.W. HAAKESTAD*, H. FONNUM*, E. LIPPERT*
Optics Letters, Vol. 41, No. 11, June 1, 2016
© 2016 Optical Society of America
ISL-PR-U-PU 6038/2016

Développement d'une batterie Li-Ion pour des applications d'impulsion de forte puissance

V. BROMMER, O. LIEBFRIED, S. SCHARNHOLZ
Symposium de Génie Électrique (SGE 2016), Grenoble, FR, 7-9 juin 2016
ISL-PU 6057/2016

Recent results in high-energy nonlinear conversion in ZGP

M. SCHELLHORN, M. EICHHORN
5th French-German Workshop on Oxide, Dielectrics and Laser Crystals, Berlin, DE, September 15-16, 2016
ISL-PU 6058/2016

Investigations sur le comportement de capteurs de choc à l'aide d'un accélérateur à bobine d'induction

C. GAUTHIER-BLUM, L. GERNANDT, S. SCHARNHOLZ, A. GIANI*, P. COMBETTE*
Symposium de Génie Électrique (SGE 2016), Grenoble, FR, 7-9 juin 2016
ISL-PU 6059/2016

Investigation on scalable high-power lasers with enhanced «eye-safety» for future weapon systems

K. DIENER, S. BIGOTTA, M. EICHHORN, L. GALECKI, L. GEISS, T. IBACH, H. SCHARF, M. VON SALISCH, J. SCHÖNER, G. VINCENT
SPIE Security + Defence 2016, Edinburgh, UK, September 26-29, 2016 - Vol. 9990-2
© 2016 SPIE
ISL-U-PU 6092/2016

Fast semiconductor switching modules for transformer coupled LC inversion generators

R. BISCHOFF, V. BROMMER, M. STOLL, S. SCHARNHOLZ
6th Euro-Asian Pulsed Power Conference (EAPPC) 2016, Estoril, PT, September 18-22, 2016
ISL-PU 6099/2016

Research on Er³⁺-doped ceramic and crystalline oxide laser media for direct operation in the eye-safe spectral band

L. GALECKI, S. BIGOTTA, T. LUKASIEWICZ*, A. KATZ, J. BÖHMLER, S. LEMONNIER, E. BARRAUD, M. EICHHORN
5th French-German Workshop on Oxide, Dielectric and Laser Crystals 2016, Berlin, DE, September 15-16, 2016
ISL-PU 6105/2016

Parameter study of an inductively powered railgun

O. LIEBFRIED, P. FRINGS*
IEEE 18th International Symposium on Electromagnetic Launch Technology, Wuhan, CN, October 24-28, 2016
© 2016 IEEE
ISL-U-PU 6112/2016

Brief review of inductive pulsed power generators for railguns

O. LIEBFRIED
IEEE 18th International Symposium on Electromagnetic Launch Technology, Wuhan, CN, October 24-28, 2016
© 2016 IEEE
ISL-U-PU 6113/2016

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On the use of lithium batteries at high power pulses discharge rates

M. MARRACI*, B. TELLINI*, O. LIEBFRIED, V. BROMMER

2016 IEEE 2nd International Forum on Research and Technologies for Society and Industry Leveraging a better tomorrow (RTSI), Bologna, IT, September 7-9, 2016 - doi: 10.1109/RTSI.2016.7740604

© IEEE 2016

ISL-U-PU 6130/2016

► Protection technologies, security, situational awareness

Peer reviewed publications

Influence of aluminium particles addition on the effects of high density metallic explosive charges

M.-O. STURTZER, J. MORY, D. ECKENFELS, T. SCHUNCK, J.-F. LEGENDRE

16th International Symposium on the Interaction of the Effects of Munitions with Structures (ISIEMS), Destin/FL, USA, November 9-13, 2015

ISL-PR-PU 6001/2016

Terahertz localized surface plasmon resonances in coaxial microcavities

W. WITHAYACHUMNANKUL*, C. M. SHAH*, C. FUMEAUX*, K. KALTENECKER, M. WALTHER*, B.M. FISCHER, D. ABBOTT*, M. BHASKARAN*, S. SRIRAM*

Advanced Optical Materials, Vol. 1, 2013, pp. 443-448

© 2013 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim

ISL-PR-U-PU 6010/2016

Metamaterial fibres for subdiffraction imaging and focusing at terahertz frequencies over optically long distances

A. TUNIZ*, K. J. KALTENECKER, B. M. FISCHER, M. WALTHER**, S. C. FLEMING*, A. ARGYROS*, B. T. KUHLMEY*

NATURE COMMUNICATIONS, 2013, Vol. 4

© 2013 Macmillan Publishers Limited

ISL-PR-U-PU 6011/2016

Gouy phase shift of a tightly focused, radially polarized beam

K. J. KALTENECKER, J. C. KÖNIG-OTTO*, M. MITTENDORFF*, S. WINNERL*, H. SCHNEIDER*, M. HELM*, H. HELM*, M. WALTHER*, B. M. FISCHER

Optica, Vol. 3, No. 1, January 2016, pp. 35-41

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ISL-PR-U-PU 6012/2016

A model for behind armor debris from EFP impact

H. S. KIM*, W. ARNOLD*, T. HARTMANN*, E. ROTTENKOLBER*, A. KLAUZAR

26th International Symposium on Ballistics, Miami/FL, USA, September 12-16, 2011, pp. 1410-1420

ISL-PR-PU 6014/2016

Effects of EFP solidity in terminal ballistics

H. S. KIM*, W. ARNOLD*, T. HARTMANN*, E. ROTTENKOLBER*, A. KLAUZAR

26th International Symposium on Ballistics, Miami/FL, USA, September 12-16, 2011, pp. 1429-1437

ISL-PR-PU 6015/2016

Cinematographic investigations of the explosively driven dispersion and ignition of solid particles

Y. GRÉGOIRE*, M.-O. STURTZER, B. A. KHASAINOV*, B. VEYSSIÈRE*

Shock Waves, July 2014, Volume 24, Issue 4, pp. 393-402

© 2014 Springer-Verlag Berlin Heidelberg

ISL-PR-U-PU 6016/2016

Impulse source localization in an urban environment: Time reversal versus time matching

S. CHEINET, L. EHRHARDT, T. BROGLIN

J. Acoust. Soc. Am., 139(1), January 2016, pp. 128-140

© 2016 Acoustical Society of America

ISL-PR-U-PU 6018/2016

Evaluation of overpressure prediction models for air blast above the triple point

L. EHRHARDT, J. BOUTILLIER, P. MAGNAN, C. DECK*, S. DE MEZZO, R. WILLINGER*, S. CHEINET

Journal of Hazardous Materials (J. Hazard. Mater.), Vol. 311 (2016), pp. 176-185

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ISL-PR-U-PU 6023/2016

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Relativistic effects in imaging of light in flight with arbitrary paths

M. LAURENZIS, J. KLEIN, E. BACHER

Optics Letters, Vol. 41, No. 9, May 1 2016, 2001-2004 (2016)

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ISL-PR-U-PU 6024/2016

Direct method of three-dimensional imaging using the multiple-wavelength range-gated active imaging principle

A. MATWYSCHUK

APPLIED OPTICS, Vol. 55, No. 14, May 10, 2016

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ISL-PR-U-PU 6028/2016

An experimental method to assess the thermo-mechanical damage of CFRP subjected to a highly energetic 1.07 μm -wavelength laser irradiation

V. ALLHEILY, F. LACROIX, A. EICHHORN, L. MERLAT, G. L'HOSTIS*, B. DURAND*

Composites Part B 92 (2016), pp. 326-331

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ISL-PR-U-PU 6030/2016

Ultrabroadband perfect imaging in terahertz wire media using single-cycle pulses

K. J. KALTENECKER, A. TUNIZ*, S. C. FLEMING*, A. ARGYROS*, B. T. KUHLMHEY*, M. WALTHER*, B. M. FISCHER

Optica, Vol. 3, Issue 5, May 2016, pp. 458-464

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ISL-PR-U-PU 6031/2016

Nonlinear optical behavior of porphyrin functionalized nanodiamonds: an efficient material for optical power limiting

O. MULLER, V. PICHOT, L. MERLAT, L. SCHMIDLIN*, D. SPITZER

APPLIED OPTICS, Vol. 55, No. 14, May 10, 2016, pp. 3801-3808

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ISL-PR-U-PU 6035/2016

Understanding how nanoparticle geometry may influence optical limiting

B. EBERLE*, S. DENGLER*, G. RITT*, O. MULLER

SPIE Newsroom, Lasers & Sources, 18/12/2012 - DOI: 10.1117/2.1201211.004579

© 2012 SPIE

ISL-PR-U-PU 6036/2016

Invited Paper - Influence of the geometric shape of silver nanoparticles on optical limiting

S. DENGLER*, O. MULLER, G. RITT*, B. EBERLE*

Optical Materials and Biomaterials in Security and Defence Systems Technology IX,

edited by Roberto Zamboni, François Kajzar, Attila A. Szep

Proceedings of SPIE Vol. 8545 854503

© 2012 SPIE

ISL-PR-U-PU 6039/2016

Blast mitigation using water mist

T. SCHUNCK, M.-O. STURTZER, J. MORY, D. ECKENFELS, J.-F. LEGENDRE

4th International Conference on Protective Structures (ICPS4), Beijing, CN, October 18-21, 2016

ISL-PR-PU 6042/2016

Light pipe design method and stepper experimentation for interference effects reduction in laser illumination

J.-M. POYET, Y. LUTZ

Optical Engineering, Vol. 55(7), July 2016

© 2016 SPIE

ISL-PR-U-PU 6050/2016

Cross-frequency coherence and pulse propagation in a turbulent atmosphere

V. E. OSTASHEV*, D. K. WILSON*, S. L. COLLIER*, J. E. CAIN*, S. CHEINET

Journal of the Acoustical Society of America, Vol. 140 (1), July 2016, pp. 678-691

© 2016 Acoustical Society of America

ISL-PR-U-PU 6052/2016

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Nonlinear optical effects in colloidal carbon nanohorns - a new optical limiting material

S. DENGLER*, O. MULLER, C. HEGE*, B. EBERLE*

Journal of Physics D: Applied Physics 49 (2016)

© 2016 IOP Publishing Ltd

ISL-PR-U-PU 6053/2016

Numerical simulation of the air blast interaction with simplified structures

L. EHRHARDT, J. BOUTILLIER, P. MAGNAN, C. DECK*, S. DE MEZZO, R. WILLINGER*, P. NAZ

24th International Symposium on Military Aspects of Blast and Shock (MABS 2016), Halifax/CA, US, September 18-23, 2016

ISL-PR-PU 6080/2016

Thermomechanical behavior of aeronautic structural carbon epoxy composite submitted to a laser irradiation

F. LACROIX, V. ALLHEILY, K. DIENER, A. EICHHORN, M. GILLET*, G. L'HOSTIS*

COST 7221, Composite Structures, 143 (2016), pp. 220-229

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ISL-PR-U-PU 6085/2016

Blast amplification by fabrics: A new numerical formulation

L. EHRHARDT, P. MAGNAN, M. SUN*

24th International Symposium on Military Aspects of Blast and Shock (MABS 2016), Halifax, CA, September 18-23, 2016

ISL-PR-PU 6087/2016

The behavior of translucent composite laminates under highly energetic laser irradiations

V. ALLHEILY, L. MERLAT, F. LACROIX, A. EICHHORN, G. L'HOSTIS*

9th International Conference on Photonic Technologies (LANE 2016), Physics Procedia 83 (1044-1054), Elsevier

doi: 10.1016/j.phpro.2016.08.110

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ISL-PR-PU 6088/2016

Failure mechanisms of armor steels under EFP impact

A. KLAVZAR, T. WOLF, R. NÜSING

LWAG Light-Weight Armour for Defence & Security, Grenoble, FR, October 17-18, 2016

ISL-PR-PU 6096/2016

Numerical and experimental investigations on ricochet of 7.62 mm NATO projectiles against aluminium targets

M. SEIDL, T. WOLF

LWAG Light-Weight Armour for Defence & Security, Grenoble, FR, October 17-18, 2016

ISL-PR-PU 6097/2016

New experimental data on blast interaction with instrumented structures

J. BOUTILLIER, S. DEMEZZO, C. DECK, L. EHRHARDT, P. MAGNAN, P. NAZ, R. WILLINGER

24th International Symposium on the Military Aspects of Blast and Shock - MABS 24, Halifax, CA, September 18-23, 2016

ISL-PR-PU 6100/2016

Shock wave interaction with reduced-scale simplified torso surrogates

J. BOUTILLIER, S. DEMEZZO, C. DECK, L. EHRHARDT, P. MAGNAN, P. NAZ, R. WILLINGER

IRCOBI 2016 Conference, Malaga, ES, September 14-16, 2016, Spainarticle IRC 16-59, pp. 428-439

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ISL-PR-U-PU 6101/2016

Time matching localization of impulse sounds in high-building, non-line-of-sight configurations

S. CHEINET, L. EHRHARDT, T. BROGLIN, M. COSNEFROY*

Acta Acustica united with Acustica, Vol. 102 (2016), 1118-1127 - DOI 10.3813/AAA.919023

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ISL-PR-U-PU 6102/2016

Influence of blast propagation on multiphase explosion mitigating material

C. BREDÀ, M.-O. STURTZER, S. KERAMPRAN*, J.-F. LEGENDRE

24th International Symposium on the Military Aspects of Blast and Shock - MABS 24, Halifax, CA, September 18-23, 2016

ISL-PR-PU 6103/2016

Analysis of planar and spherical shock-wave mitigation by wet aqueous foams

C. BREDÀ, S. KERAMPRAN*, M.-O. STURTZER, M. ARRIGONI*, J.-F. LEGENDRE

22nd International Shock Interaction Symposium, Glasgow, UK, July 4- 8, 2016

ISL-PR-PU 6104/2016

* not member of ISL

The thermo-optical behavior of composite laminates under highly energetic laser irradiations

V. ALLHEILY, L. MERLAT, F. LACROIX, A. EICHHORN, G. L'HOSTIS*

21st International Symposium on High Power Laser Systems and Applications (HPLS&A 2016), Gmunden, AT, September 5-9, 2016

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ISL-PR-U-PU 6121/2016

A critical literature review on primary blast thorax injury and their outcomes

J. BOUTILLIER, C. DECK, P. MAGNAN, P. NAZ, R. WILLINGER

Journal of Trauma and Acute Care Surgery 2016, Vol. 81, pp. 371-379

© 2016 Wolters Kluwer Health, Inc

ISL-PR-U-PU 6124/2016

THz pulse propagation along inkjet-printed metal stripes: Towards a 3D wire-medium for subwavelength imaging

K. J. KALTENECKER, B. M. FISCHER, P. BOLLGRUEN*, J. G. KORVINK*, M. WALTHER*

IRMMW-THz 2012, 37th International Conference of Infrared, Millimeter and Terahertz Waves, University of Wollongong, AU,

September 23-28, 2012

© 2012 IEEE

ISL-U-PU 6002/2016

Terahertz magnetic plasmon waveguides

W. WITHAYACHUMNANKUL*, K. KALTENECKER, H. LIU*, C. FUMEAUX*, D. ABBOTT*, M. WALTHER*

IRMMW-THz 2012, 37th International Conference of Infrared, Millimeter and Terahertz Waves, University of Wollongong, AU,

September 23-28, 2012

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ISL-U-PU 6003/2016

Plasmonic focusing on metal and semiconductor disks under radially polarized terahertz illumination

K. KALTENECKER, J. WALLAUER*, S. WASELIKOWSKI*, J. HODAPP*, C. FISCHER*, S. WINNERL*,

H. SCHNEIDER*, B.M. FISCHER, M. WALTHER*

IRMMW-THz 2013 - 38th International Conference on Infrared, Millimeter, and Terahertz Waves, Mainz, DE, September 1-6, 2013

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ISL-U-PU 6004/2016

Spectroscopic investigation of the far-infrared properties of liquid crystals

M. REUTER*, N. VIEWEG*, B. M. FISCHER, P. KULA*, R. DABROWSKI*, M.A. CELIK*, G. FRENKING*, M. KOCH*,

P.U. JEPSEN*

IRMMW-THz 2013 - 38th International Conference on Infrared, Millimeter, and Terahertz Waves, Mainz, DE, September 1-6, 2013

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ISL-U-PU 6005/2016

THz metamaterials based on metal-insulator transition of VO₂ patterns

K. J. KALTENECKER, J. LEROY*, A. CRUNTEANU*, G. HUMBERT*, B. M. FISCHER, M. WALTHER*

IRMMW-THz 2014 - 39th International Conference on Infrared, Millimeter, and Terahertz Waves, University of Arizona, Tucson/AZ,

US, September 14-19, 2014

© 2014 IEEE

ISL-U-PU 6006/2016

Sub-diffraction imaging in the THz range using wire array metamaterial fibers and stacked layers of inkjet printed wire grids

K. J. KALTENECKER, A. TUNIZ*, P. BOLLGRUEN*, D. MAGER*, J. G. KORVINK*, S. C. FLEMING*, A. ARGYROS*,

B. T. KUHLMEY*, B. M. FISCHER, M. WALTHER*

Metamaterials 2013 - 7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, Bordeaux, FR,

September 16-21, 2013

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ISL-U-PU 6007/2016

Perfect image transport by a wire array metamaterial fiber

K. J. KALTENECKER, A. TUNIZ*, A. ARGYROS*, S.C. FLEMING*, B. KUHLMEY*, M. WALTHER*, B.M. FISCHER

IRMMW-THz 2015, 40th International Conference on Infrared, Millimeter, and Terahertz Waves, Chinese University of Hong Kong,

HK, August 23-28, 2015

© 2015 IEEE

ISL-U-PU 6008/2016

Ultrabroadband spectroscopy for security applications

S. ENGELBRECHT, L. BERGÉ*, S. SKUPIN*, T. WANG*, P.U. JEPSEN*, B.M. FISCHER

IRMMW-THz 2015, 40th International Conference on Infrared, Millimeter, and Terahertz Waves, Chinese University of Hong Kong, HK, August 23-28, 2015

© 2015 IEEE

ISL-U-PU 6009/2016

Time-frequency representation of terahertz time domain spectroscopy signals based on the Stockwell transform

Z. BOUGUILA*, B. FISCHER, A. MOUKADEM*, A. DIETERLEN*

IRMMW-THz 2014 - 39th International Conference on Infrared, Millimeter, and Terahertz Waves, University of Arizona, Tucson/AZ, US, September 14-19, 2014

© 2014 IEEE

ISL-U-PU 6013/2016

De la détection acoustique de tirs à la restitution 3D des alertes et de la communication audio

P. NAZ, V. ZIMPFER, S. HENGY, M. LAURENZIS, M. CHRISTOPH, P. HAMERY

Acoustique & Techniques, Vol. 81, Février 2016, pp. 27-31

ISL-PU 6021/2016

Dégradation des performances de localisation sonore causée par des systèmes tactiques de communication et protection

T. JOUBAUD, V. ZIMPFER, A. GARCIA*, C. LANGRENNE*

13^e Congrès Français d'Acoustique (CFA 2016), Le Mans, FR, 11-15 avril 2016

ISL-PU 6026/2016

Localisation de sources impulsionnelles en milieu urbain

S. CHEINET, L. EHRHARDT, T. BROGLIN

13^e Congrès Français d'Acoustique (CFA 2016), Le Mans, FR, 11-15 avril 2016

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Effets de la turbulence sur des impulsions acoustiques se propageant près du sol

S. CHEINET, M. COSNEFROY, D. WILSON*, V. OSTASHEV*, S. COLLIER*, J. CAIN*

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Étude des chemins acoustiques prépondérants lors d'une écoute avec un émetteur ostéophonique

V. ZIMPFER, P. HAMERY, G. BLANCK, J. ROSIER*

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Comparaison entre un modèle électroacoustique et des mesures LDV pour la caractérisation d'un transducteur électromagnétique à conduction osseuse

Y. PENE*, J. DURY*, J. ROSIER*, V. ZIMPFER, P. HAMERY, G. BLANCK

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Le retournement temporel en milieu réverbérant pour localiser une source supersonique

G. MAHENC*, E. BAVU*, P. HAMERY, S. HENGY, M. MELON*

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Détection, classification et suivi de trajectoire de sources acoustiques par captation pression-vitesse sur capteurs MEMS numériques

A. RAMAMONJY, E. BAVU*, A. GARCIA*, S. HENGY

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A computational parametric study on «cookie-cutter» projectiles

F. RONDOT

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Detection of small UAVs - Project OASYS²

M. LAURENZIS, S. HENGY, L. MERLAT, R. SCHMITT, C. ALLHEILY, P. NAZ, F. CHRISTNACHER, B.M. FISCHER
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Optical and acoustical UAV detection

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Optically lightweight tracking of objects around a corner

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Influence of add-on bainitic plates perforated by slotted holes on the protective performance of lightweight armour systems

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Chemometrics applied to terahertz and Raman spectra for explosives analysis

J. B. SLEIMAN*, S. ENGELBRECHT, L. MERLAT, B. FISCHER, B. BOUSQUET*, P. MOUNAIX
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Ultrabroadband THz time-domain spectroscopy of biomolecular crystals

K. J. KALTENECKER, S. ENGELBRECHT, K. IWASZCZUK*, B. M. FISCHER, P. U. JEPSEN*
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THz wire medium operating as an ultra-broadband imaging device

K. J. KALTENECKER, A. TUNIZ*, S. C. FLEMING*, A. ARGYROS*, B. T. KUHLMEY*, M. WALTHER*, B. M. FISCHER
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