

- (1) 2017 - Precise detection of circular dichroism in a cluster of nano-helices by photoacoustic measurements Benedetti, Alessio; Alam, Badrul; Esposito, Marco; Tasco, Vittorianna; Leahu, Grigore; Belardini, Alessandro; Li Voti, Roberto; Passaseo, Adriana; Sibilia, Concetta SCIENTIFIC REPORTS 2045-2322 pp. 5257 -
- (2) 2016 - Nano-sieve filter for microfluidic sensing on lab-on-chip Muzi, M.; Veroli, A.; Buzzin, A.; Alam, B.; de Cesare, G.; Caputo, D.; Maiolo, L.; Marrani, M.; Frezza, F.
- (3) 2016 - Analysis on vertical directional couplers with long range surface plasmons for multilayer optical routing Alam, B.; Veroli, A.; Benedetti, A. Analysis on vertical directional couplers with long range surface plasmons for multilayer optical routing pp. -
- (4) 2016 - Planar plasmonic bean-Like nano structures for high dichroic filtering: theory, fabrication and experiment Veroli, A.; Alam, B.; Maiolo, L.; Mura, F.; Camminiti, R.; Todisco, F.; De Giorgi, M.; Dominici, L.; Benedetti, A.
- (5) 2016 - Multilayer optical routing by means of vertical directional coupler with long range surface plasmons Alam, B.; Veroli, A.; Benedetti, A.
- (6) 2018 - Polarization-maintaining reflection-mode THz time-domain spectroscopy of a polyimide based ultra-thin narrow-band metamaterial absorber Astorino, M. D.; Fastampa, R.; Frezza, F.; Maiolo, L.; Marrani, M.; Missori, M.; Muzi, M.; Tedeschi, N.; Veroli, A. SCIENTIFIC REPORTS 2045-2322 pp. 1985 -
- (7) 2017 - Ultra-thin narrow-band, complementary narrow-band and dual-band metamaterial absorbers for applications in the THz regime Astorino, M. D.; Frezza, F.; Tedeschi, N. JOURNAL OF APPLIED PHYSICS 0021-8979 pp. 1 - 10
- (8) 2017 - Broad-band terahertz metamaterial absorber with stacked electric ring resonators Astorino, M. D.; Frezza, F.; Tedeschi, N. JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS 0920-5071 pp. 1 - 13
- (9) 2016 - A simple wide-angle metamaterial absorber Sassolini, E.; Tedeschi, N.; Khalid, M.; Lia, E.; Astorino, M.D.; Frezza, F.
- (10) 2016 - Design and analysis of an ultra-thin dual-band metamaterial absorber for THz applications Astorino, M.D.; Tedeschi, N.
- (11) 2016 - Narrow-Band and Dual-Band Metamaterial Absorbers in the THz Regime Astorino, M. D.; Frezza, F.; Tedeschi, N.
- (12) 2016 - Terahertz photonics: integration of terahertz components Stivala, S.; Busacca, A.; Astorino, M. D.; Frezza, F.; Tedeschi, N.
- (13) 2016 - Assorbitori metamateriali per applicazioni spaziali Astorino, M. D.; Frezza, F.; Tedeschi, N.
- (14) 2017 - Ultra-thin narrow-band, complementary narrow-band and dual-band metamaterial absorbers for applications in the THz regime Astorino, M. D.; Frezza, F.; Tedeschi, N. JOURNAL OF APPLIED PHYSICS 0021-8979 pp. 1 - 10
- (15) 2018 - Polarization-maintaining reflection-mode THz time-domain spectroscopy of a polyimide based ultra-thin narrow-band metamaterial absorber Astorino, M. D.; Fastampa, R.; Frezza, F.; Maiolo, L.; Marrani, M.; Missori, M.; Muzi, M.; Tedeschi, N.; Veroli, A. SCIENTIFIC REPORTS 2045-2322 pp. 1985 -
- (16) 2016 - Photonic simulation of entanglement generation and transfer in a spin chain Pitsios, Ioannis; Banchi, Leonardo; Rab Syed, Adil; Crespi, Andrea; Bentivegna, Marco; Caprara, Debora; Spagnolo, Nicol; Mataloni, Paolo; Bose, Sougato; Osellame, Roberto; Sciarrino, Fabio

- (17) 2017 - Photonic simulation of entanglement growth and engineering after a spin chain quench Pitsios, Ioannis; Banchi, Leonardo; Rab, Syed Adil; Bentivegna, Marco; Caprara, Debora; Crespi, Andrea; Spagnolo, Nicol; Bose, Sougato; Mataloni, Paolo; Osellame, Roberto; Sciarrino, Fabio NATURE COMMUNICATIONS 2041-1723 pp. -
- (18) in stampa - CoOx and FeOx supported on ZrO2 for the simultaneous abatement of NOx and N2O with C3H6 in the presence of O2 Campa, Maria Cristina; Pietrogiacomì, Daniela; Scarfiello, Canio; Carbone, Lea Roberta; Occhiuzzi, Manlio APPLIED CATALYSIS. B, ENVIRONMENTAL 0926-3373 pp. -
- (19) 2016 - N2O decomposition on CoOx, CuOx, FeOx or MnOx supported on ZrO2: The effect of zirconia doping with sulfates or K+ on catalytic activity Pietrogiacomì, Daniela; Campa, Maria Cristina; Carbone, Lea Roberta; Tuti, Simonetta; Occhiuzzi, Manlio APPLIED CATALYSIS. B, ENVIRONMENTAL 0926-3373 pp. 218 - 227
- (20) 2016 - A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion Wood, Christopher J; Summers, Gareth H; Clark, Charlotte A; Kaeffer, Nicolas; Braeutigam, Maximilian; Carbone, Lea Roberta; D'Amario, Luca; Fan, Ke; Farr, Yoann; Narbey, Stphanie; Oswald, Frdric; Stevens, Lee A; Parmenter, Christopher D J; Fay, Michael W; La Torre, Alessandro; Snape, Colin E; Dietzek, Benjamin; Dini, Danilo; Hammarstrm, Leif; Pellegrin, Yann; Odobel, Fabrice; Sun, Licheng; Artero, Vincent; Gibson, Elizabeth A PHYSICAL CHEMISTRY CHEMICAL PHYSICS 1463-9084 pp. 10727 - 10738
- (21) 2016 - BRNSTED ACID SITES OF MORDENITE FOR N2O ABATEMENT REACTIONS Campa, Maria Cristina; Pietrogiacomì, Daniela; Carbone, Lea R.; Occhiuzzi, Manlio
- (22) 2016 - CoOx and FeOx supported on ZrO2 for the simultaneous abatement of NO and N2O with C3H6 Campa, M.C.; Pietrogiacomì, D.; Scarfiello, C.; Carbone, L.R.; Occhiuzzi, M.
- (23) 2016 - A low-cost, high-energy polymer lithium-sulfur cell using a composite electrode and polyethylene oxide (PEO) electrolyte Carbone, Lorenzo; Hassoun, Jusef IONICS 0947-7047 pp. 1 - 6
- (24) 2015 - Comparative Study of Ether-Based Electrolytes for Application in Lithium-Sulfur Battery Carbone, Lorenzo; Gobet, Mallory; Peng, Jing; Devany, Matthew; Scrosati, Bruno; Greenbaum, Steve; Hassoun, Jusef ACS APPLIED MATERIALS & INTERFACES 1944-8244 pp. 13859 - 13865
- (25) 2016 - Natural Abundance Oxygen-17 NMR Investigation of Lithium Ion Solvation in Glyme-based Electrolytes Peng, Jing; Carbone, Lorenzo; Gobet, Mallory; Hassoun, Jusef; Devany, Matthew; Greenbaum, Steven ELECTROCHIMICA ACTA 0013-4686 pp. 606 - 612
- (26) 2016 - Rechargeable lithium battery using non-flammable electrolyte based on tetraethylene glycol dimethyl ether and olivine cathodes Di Lecce, Daniele; Carbone, Lorenzo; Gancitano, Vincenzo; Hassoun, Jusef JOURNAL OF POWER SOURCES 0378-7753 pp. 146 - 153
- (27) 2015 - Polyethylene glycol dimethyl ether (PEGDME)-based electrolyte for lithium metal battery Carbone, Lorenzo; Gobet, Mallory; Peng, Jing; Devany, Matthew; Scrosati, Bruno; Greenbaum, Steve; Hassoun, Jusef JOURNAL OF POWER SOURCES 0378-7753 pp. 460 - 464
- (28) 2016 - Insight on the Li2S electrochemical process in a composite configuration electrode Carbone, Lorenzo; Verrelli, Roberta; Gobet, Mallory; Peng, Jing; Devany, Matthew; Scrosati, Bruno; Greenbaum, Steve; Hassoun, Jusef NEW JOURNAL OF CHEMISTRY 1144-0546 pp. 2935 - 2943
- (29) 2017 - Carbon Composites for a High-Energy LithiumSulfur Battey with a Glyme-Based Electrolyte Carbone, Lorenzo; Peng, Jing; Agostini, Marco; Gobet, Mallory; Devany, Matthew; Scrosati, Bruno; Greenbaum, Steve; Hassoun, Jusef CHEMELECTROCHEM 2196-0216 pp. 209 - 215

- (30) 2017 - Wormlike reverse micelles in lecithin/bile salt/water mixtures in oil Cautela, Jacopo; Giustini, Mauro; Pavel, Nicolae Viorel; Palazzo, Gerardo; Galantini, Luciano COLLOIDS AND SURFACES. A, PHYSICOCHEMICAL AND ENGINEERING ASPECTS 0927-7757 pp. -
- (31) 2017 - On the linear Boltzmann transport equation: a Monte Carlo algorithm for stationary solutions and residence times in presence of obstacles. Atto di congresso in volume Alessandro Ciallella
- (32) 2017 - Linear Boltzmann dynamics in a strip with large reflective obstacles: stationary state and residence time Alessandro Ciallella, Emilio N.M. Cirillo KINETIC AND RELATED MODELS .
- (33) 2016 - An alternative, Renormalization Group based approach to Michaelis-Menten kinetics Coluzzi, Barbara; Bersani, Alberto M.; Bersani, Enrico
- (34) 2016 - Numerical study of DNA denaturation with self-avoidance: pseudo-critical temperatures and finite size behaviour. Barbara Coluzzi; Edouard Yeramian JOURNAL OF STATISTICAL MECHANICS: THEORY AND EXPERIMENT 1742-5468 pp. -
- (35) 2016 - On the Mathematical Justification of the total Quasi-Steady State Approximation in Enzyme Kinetics Bersani, A.M.; Bersani, E.; Borri, A.; Coluzzi, B.; Vellucci, P.
- (36) On two-dimensional nonlocal Venttsel' problems in piecewise smooth domains Creo, Simone; Lancia, Maria Rosaria; Nazarov, Alexander; Vernole, Paola DISCRETE CONT. DYN. SYST.
- (37) Convergence and density results for parabolic quasi-linear Venttsel' problems in fractal domains Creo, Simone; Regis Durante, Valerio DISCRETE CONT. DYN. SYST.
- (38) in stampa - APPROXIMATION OF A NONLINEAR FRACTAL ENERGY FUNCTIONAL ON VARYING HILBERT SPACES Creo, Simone; Lancia, Maria Rosaria; Velez-santiago, A.; Vernole, Paola COMMUNICATIONS ON PURE AND APPLIED ANALYSIS 1534-0392 pp. 647 - 669
- (39) In stampa - A time fractional Mean Field Game Fabio Camilli, Raul De Maio ADVANCES IN DIFFERENTIAL EQUATIONS 1079-9389 pp. 1 - 21
- (40) In stampa - Measure-valued solutions to nonlocal transport equations on networks Fabio Camilli, Raul De Maio, Andrea Tosin JOURNAL OF DIFFERENTIAL EQUATIONS 0022-0396 pp. 1 - 20
- (41) Transport of measures on networks Fabio Camilli, Raul De Maio, Andrea Tosin NETWORKS AND HETEROGENEOUS MEDIA 1556-1801 pp. 1 - 21
- (42) 2017 - Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene Di Bernardo, Iolanda; Avvisati, Giulia; Mariani, Carlo; Motta, Nunzio; Chen, Chaoyu; Avila, Jos; Asensio, Maria Carmen; Lupi, Stefano; Ito, Yoshikazu; Chen, Mingwei; Fujita, Takeshi; Betti, Maria Grazia ACS OMEGA 2470-1343 pp. 3691 - 3697
- (43) 2014 - Electronic structure of graphene/Co interfaces Pacil, D.; Lisi, S.; Di Bernardo, I.; Papagno, M.; Ferrari, L.; Pisarra, M.; Caputo, M.; Mahatha, S.K.; Sheverdyeva, P.M.; Moras, P.; Lacovig, P.; Lizzit, S.; Baraldi, A.; Betti, M.G.; Carbone, C. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS 1098-0121 pp. -
- (44) 2016 - Effect of substrate polishing on the growth of graphene on 3C-SiC(111)/Si(111) by high temperature annealing Gupta, B.; Di Bernardo, I.; Mondelli, P.; Della Pia, A.; Betti, M.G.; Iacopi, F.; Mariani, C.; Motta, N. NANOTECHNOLOGY 0957-4484 pp. 185601 -
- (45) 2015 - Detection of Two Buried Cross Pipelines by Observation of the Scattered Electromagnetic Field Di Gregorio, Pietro Paolo; Frezza, Fabrizio; Mangini, Fabio; Munzi, Marco; Tedeschi, Nicola; GEOPHYSICAL RESEARCH ABSTRACT, VOL. 17, EGU2015-13008-1

- (46) 2015 - Numerical comparisons between different electromagnetic modelling methods/software tools Di Gregorio, Pietro Paolo; Frezza, Fabrizio; Mangini, Fabio; PROCEEDING OF 4TH GENERAL MEETING OF THE EU COST ACTION TU1208
- (47) 2016 - Electromagnetic interaction with a Misaligned Broken Pipe Di Gregorio, Pietro Paolo; Ferrara, Vincenzo; Frezza, Fabrizio; Mangini, Fabio; Munzi, Marco; ATTI DELLA XXI RIUNIONE NAZIONALE ELETTROMAGNETISMO, RINEM, pp. 4.
- (48) 2016 - Electromagnetic Interaction with a Misaligned Broken Pipe, Di Gregorio, Pietro Paolo; Frezza, Fabrizio; Mangini, Fabio; Munzi, Marco; Tedeschi, Nicola; GEOPHYSICAL RESEARCH ABSTRACT, VOL. 18, EGU2016
- (49) 2017 - Determination of concrete cover thickness in a reinforced concrete pillar by observation of the scattered electromagnetic field Di Gregorio, Pietro Paolo; Frezza, Fabrizio; Mangini, Fabio; Pajewski, Lara; EGU2017
- (50) 2017 - Wire-grid modelling of metallic targets for Ground Penetrating Radar applications Mangini, Fabio; Di Gregorio, Pietro Paolo; Munzi, Marco; Pajewski, Lara; FrezzaFabrizio; IMEKO INTERNATIONAL CONFERENCE ON METROLOGY FOR ARCHEOLOGY AND CULTURAL HERITAGE
- (51) Under submission - Perception of Risk - Can the Perception of Risk Be Decreased among Caregivers during Anesthesia Delivery? L. Dinia, F. Mangini, F. Frezza, D. Arpino
- (52) Under submission - FBG Multifunctional pH Sensor - Monitoring the Rain in Cultural Heritage L. Dinia, F. Mangini, M. Muzi, F. Frezza ACTA IMEKO (ISSN: 2221-870X)
- (53) Memea 2018, International Symposium on Medical Measurements & Applications, Rome Under submission - Tag Recognition: a new methodology for the structural monitoring of cultural heritage F. Mangini, L. Dalvia, M. Del Muto, L. Dinia, E. Federici, F. Frezza, E. Palermo, Del Preted MEASUREMENT JOURNAL (ISSN: 0263-2241)
- (54) 2017 - Fiber Bragg grating multifunctional pH sensor for monitoring the rain in cultural heritage L. Dinia, F. Mangini, M. Muzi, and F. Frezza IMEKO International Conference on Metrology for Archaeology and Cultural Heritage Lecce, Italy
- (55) 2017 - NEW CRACK MEASUREMENT METHODOLOGY: TAG RECOGNITION F. Mangini, L. Dinia, F. Frezza, A. Beccarini, M. Del Muto, E. Federici, S. Godi, and A. Segneri IMEKO International Conference on Metrology for Archaeology and Cultural Heritage Lecce, Italy
- (56) In stampa - Asymptotics for quasilinear obstacle problems in bad domains R. Capitanelli, S. Fragapane
- (57) In stampa - Regularity results for p-Laplacian in pre-fractal domains R. Capitanelli, S. Fragapane, M. A. Vivaldi ADVANCES IN NONLINEAR ANALYSIS
- (58) 2017 - Manipulating Impulsive Stimulated Raman Spectroscopy with a Chirped Probe Pulse Monacelli, Lorenzo; Batignani, Giovanni; Fumero, Giuseppe; Ferrante, Carino; Mukamel, Shaul; Scopigno, Tullio THE JOURNAL OF PHYSICAL CHEMISTRY LETTERS 1948-7185 pp. -
- (59) 2016 - Electronic resonances in broadband stimulated Raman spectroscopy Batignani, G; Pontecorvo, E; Giovannetti, G; Ferrante, C; Fumero, G; Scopigno, T SCIENTIFIC REPORTS 2045-2322 pp. 18445 -
- (60) 2016 - Probing ultrafast processes by fifth order Stimulated Raman Scattering Fumero, G; Batignani, G; Dorfman, K E; Mukamel, S; Scopigno, T JOURNAL OF PHYSICS. CONFERENCE SERIES 1742-6588 pp. 012023 1 - 012023 6

- (61) 2015 - On the Resolution Limit of Femtosecond Stimulated Raman Spectroscopy: Modelling Fifth-Order Signals with Overlapping Pulses Fumero, Giuseppe; Batignani, Giovanni; Dorfman, Konstantin E; Mukamel, Shaul; Scopigno, Tullio CHEMPHYSCHEM 1439-4235 pp. n/a - n/a
- (62) 2015 - Energy flow between spectral components in 2D broadband stimulated Raman spectroscopy Batignani, G.; Fumero, G.; Mukamel, S.; Scopigno, T. PHYSICAL CHEMISTRY CHEMICAL PHYSICS 1463-9076 pp. 10454 - 10461
- (63) 2016 - Glass-ceramic coated Mg-Ca alloys for biomedical implant applications Rau, J. V.; Antoniac, I.; Fosca, M.; De Bonis, A.; Blajan, A. I.; Cotrut, C.; Graziani, V.; Curcio, M.; Cricenti, A.; Niculescu, M.; Ortenzi, M.; Teghil, R. MATERIALS SCIENCE AND ENGINEERING. C, BIOMIMETIC MATERIALS, SENSORS AND SYSTEMS 0928-4931 pp. 362 - 369
- (64) 2016 - Preliminary study on Sharpey's fibers in a dental hominin sample from the Middle Pleistocene Rubini, Mauro; Cerroni, Vittorio; Festa, Giulia; Ferro, Daniela; Graziani, Valerio; Sulpizio, Roberta; Zaio, Paola
- (65) 2015 - Doped, mechanically reinforced calcium phosphate cements for bone tissue engineering Graziani, V.; Fosca, M.; Ortenzi, M.; Komlev, V. S.; Caminiti, R.; Rau, J. V.
- (66) 2014 - Combining chemical data with GIS and PCA to investigate Phoenician-Punic Cu-metallurgy in the Iberian Peninsula Celauro, A.; Schiavon, N.; Brunetti, A.; Manfredi, L.; Susanna, F.; Dekayir, A.; Graziani, V.; Pargny, D.; Ferro, D. APPLIED PHYSICS. A, MATERIALS SCIENCE & PROCESSING 0947-8396 pp. 711 - 722
- (67) 2016 - Silver-Doped Calcium Phosphate Bone Cements with Antibacterial Properties Rau, J. V.; Fosca, M.; Graziani, V.; Egorov, A. A.; Zobkov, Y. V.; Fedotov, A. Y.; Ortenzi, M.; Caminiti, R.; Baranchikov, A. E.; Komlev, V. S. JOURNAL OF FUNCTIONAL BIOMATERIALS 2079-4983 pp. 1 - 11
- (68) 2016 - Zinc-releasing calcium phosphate cements for bone substitute materials Graziani, V.; Fosca, M.; Egorov, A.A.; Zobkov, Yu.V.; Fedotov, A.Yu.; Baranchikov, A.E.; Ortenzi, M.; Caminiti, R.; Komlev, V.S; Rau, J.V. CERAMICS INTERNATIONAL 0272-8842 pp. 17310 - 17316
- (69) 2015 - Ag-, Zn-doped calcium phosphate bone cements for tissue engineering Graziani, V.; Fosca, M.; Komlev, V. S.; Ortenzi, M.; Rau, J.V.
- (70) 2016 - Alpha-tricalcium phosphate based brushite cement for osteoplastics I.V.Fadeeva, A.S.Fomin; Barinov, S.M.; Rau, J.V.; Graziani, V.; Putlyaev, V.I.
- (71) 2016 - Doped calcium phosphate bone cements and real-time monitoring of their hardening mechanism Fosca, M.; Graziani, V.; Ortenzi, M.; Rau, J.V.
- (72) 2016 - RAMAN IMAGING OF TISSUES TOWARDS CLINICAL CANCER DIAGNOSTICS Rau, J.V.; Fosca, M.; Graziani, V.; Taffon, C.; La Vaccara, V.; Caricato, M.; Crescenzi, A.
- (73) 2016 - RAMAN spectroscopy imaging improves the diagnosis of papillary thyroid carcinoma J.V. Rau; V. Graziani; M. Fosca; C. Taffon; M. Rocchia; P. Crucitti; P. Pozzilli; A. Onetti Muda; M. Caricato; A. Crescenzi SCIENTIFIC REPORTS 2045-2322 pp. -
- (74) 2017 - The Bone Building Blues: Self-hardening copper-doped calcium phosphate cement and its in vitro assessment against mammalian cells and bacteria Julietta V. Rau; Victoria M. Wu; Valerio Graziani; Inna V. Fadeeva; Alexander S. Fomin; Marco Fosca MATERIALS SCIENCE AND ENGINEERING. C, BIOMIMETIC MATERIALS, SENSORS AND SYSTEMS 0928-4931 pp. 270 - 279
- (75) 2017 - Proof-of-concept Raman spectroscopy study aimed to differentiate thyroid follicular patterned lesions Rau, Julietta V.*; Fosca, Marco; Graziani, Valerio; Taffon, Chiara; Rocchia, Massimiliano;

- Caricato, Marco; Pozzilli, Paolo; Onetti Muda, Andrea; Crescenzi, Anna SCIENTIFIC REPORTS 2045-2322 pp. 14970 -
- (76) 2018 - Resonant Broadband Stimulated Raman scattering in Myoglobin Ferrante, Carino; Batignani, Giovanni; Fumero, Giuseppe; Pontecorvo, Emanuele; Virga, Alessandra; Montemiglio, Linda; Cerullo, Giulio; Vos, Maarten; Scopigno, Tullio, JOURNAL OF RAMAN SPECTROSCOPY -
- (77) in stampa - Definizione di un protocollo analitico per lo studio archeometrico di materiali piro-metallurgici del sito di Auoam (Marocco) Ferro, Daniela; Graziani, Valerio; Sulpizio, Roberta; Lucarelli, Chiara; Trojsi, Giorgio; Meucci, Costantino
- (78) In stampa - Sensitivity analysis of the LWR model for traffic forecast on large networks using Wasserstein distance Maya Briani, Emiliano Cristiani, Elisa Iacomini COMMUNICATIONS IN MATHEMATICAL SCIENCE
- (79) 2016. Paper published Novelo a Novel LO, authors E. Lia, R. Follmann, S. Ehrich, O. Kersten, U. Lewark, J. Berben, M. Quibeldey, G. Langgartner, P. van Loock, F. Deborgies; 3rd ESA Workshop on Advanced Flexible Telecom Payloads, ESTEC, Noordwijk, The Netherlands; 21-24 March, 2016.
- (80) 2016. Paper published A Simple Wide- Angle Metamaterial Absorber; authors E. Sassolini, N. Tedeschi, M. Khalid, E. Lia, M.D. Astorino, F. Frezza; XXI RiNEM, Parma, Italy; 12-14 September, 2016.
- (81) 2016. Paper published Novelo a Novel LO, authors E. Lia, R. Follmann, S. Ehrich, O. Kersten, U. Lewark, J. Berben, M. Quibeldey, G. Langgartner, P. van Loock, F. Deborgies; 3rd ESA Workshop on Advanced Flexible Telecom Payloads, ESTEC, Noordwijk, The Netherlands; 21-24 March, 2016.
- (82) 2017. Paper published Dual Redundant Q/V-Band mHEMT Low Noise Amplifier; authors M. Kotiranta, R. Henneberger, D. Bruch, E. Lia, A. Leuther, H. Massler, M. Schlechtweg, O. Ambacher; MTT17 Microwave Technology and Techniques Workshop, ESTEC, Noordwijk, The Netherlands; 3-5 April 2017.
- (83) 2017. Paper published High Q-Factor Silicon Resonator for High Frequency Oscillators, authors E. Lia, M. Kucharski, R. Dionisio, M. A. G. Lasso, A. G.-Torrent, I. Arregui; MTT17 Microwave Technology and Techniques Workshop, ESTEC, Noordwijk, The Netherlands; 3-5 April 2017.
- (84) 2015. US patent published, no. US2015-0109029 A1(also published as WO2013167196 (A1) JP2015520985 (A) EP2847862 (A1)), invention title "Method and Apparatus for Generating a Digital Signal of Tunable Frequency and Frequency Synthesizer Employing Same", inventors E. Lia, R. Follmann, D. Kther, A. Lauer, date of publication: 23 April 2015.
- (85) 2017 - Sulfated titania as additive in Nafion membranes for water electrolysis applications Siracusano, S.; Baglio, V.; Nicotera, I.; Mazzapioda, L.; Aric, A.S.; Panero, S.; Navarra, M.A INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 0360-3199 pp. -
- (86) in stampa - Tihonov theory and center manifolds for inhibitory mechanisms in enzyme kinetics Bersani, A. M.; Borri, A.; Milanese, A.; Vellucci, P. COMMUNICATIONS IN APPLIED AND INDUSTRIAL MATHEMATICS 2038-0909 pp. 1 - 22
- (87) 2016 - Tihonov approach for multidimensional systems in bio-informatics Bersani, Alberto Maria; Borri, Alessandro; Milanese, Alessandro; Vellucci, Pierluigi
- (88) 2016 - Contact resonance atomic force microscopy for viscoelastic characterization of polymer-based nanocomposites at variable temperature Natali, Marco; Passeri, Daniele; Reggente, Melania; Tamburri, Emanuela; Terranova, Maria Letizia; Rossi, Marco
- (89) 2016 - Elastic modulus measurements at variable temperature: Validation of atomic force microscopy techniques Natali, Marco; Reggente, Melania; Passeri, Daniele; Rossi, Marco

- (90) 2017 - Beyond the concepts of nanocomposite and 3D printing: PVA and nanodiamonds for layer-by-layer additive manufacturing Angjellari, Mariglen; Tamburri, Emanuela; Montaina, Luca; Natali, Marco; Passeri, Daniele; Rossi, Marco; Terranova, Maria Letizia MATERIALS & DESIGN 0264-1275 pp. 12 - 21
- (91) 2017 - Microstructural evidence for seismic and aseismic slip along clay-bearing, carbonate faults Smeraglia, Luca; Bettucci, Andrea; Billi, Andrea; Carminati, Eugenio; Cavallo, Andrea; Di Toro, Giulio; Natali, Marco; Passeri, Daniele; Rossi, Marco; Spagnuolo, Elena JOURNAL OF GEOPHYSICAL RESEARCH. SOLID EARTH 2169-9313 pp. -
- (92) 2017 - Self-assembling of calcium salt of the new DNA base 5-carboxylcytosine Irrera, Simona; Ruiz-Hernandez, Sergio E.; Reggente, Melania; Passeri, Daniele; Natali, Marco; Gala, Fabrizio; Zollo, Giuseppe; Rossi, Marco; Portalone, Gustavo APPLIED SURFACE SCIENCE 0169-4332 pp. 297 - 306
- (93) 2017 - Multiscale mechanical characterization of hybrid Ti/PMMA layered materials Reggente, M.; Natali, M.; Passeri, D.; Lucci, M.; Davoli, I.; Pourroy, G.; Masson, P.; Palkowski, H.; Hangen, U.; Carrad, A.; Rossi, M. COLLOIDS AND SURFACES. A, PHYSICOCHEMICAL AND ENGINEERING ASPECTS 0927-7757 pp. 244 - 251
- (94) 2017 - In Situ control and modification of the probe magnetization state for accurate magnetic force microscopy Angeloni, Livia; Passeri, Daniele; Natali, Marco; Reggente, Melania; Anelli, Emanuele; Bettucci, Andrea; Mantovani, Diego; Rossi, Marco
- (95) 2017 - Plasma enhanced hot filament CVD growth of thick carbon nanowall layers Natali, Marco; Passeri, Daniele; Rossi, Marco; Dikonimos, Theodoros; Lisi, Nicola
- (96) 2017 - Synthesis and characterization of Nb₂O₅ mesostructures with tunable morphology and their application in dye-sensitized solar cells Panetta, Riccardo; Latini, Alessandro; Pettiti, Ida; Cavallo, Carmen MATERIALS CHEMISTRY AND PHYSICS 0254-0584 pp. 289 - 301
- (97) 2017 - A simple synthesis of the refractory ceramic sulfide CeS by electron beam irradiation Panetta, Riccardo; Latini, Alessandro JOURNAL OF THE AMERICAN CERAMIC SOCIETY 0002-7820 pp. - - -
- (98) 2015 - A comparison of the performances of different mesoporous titanias in dye-sensitized solar cells Latini, Alessandro; Panetta, Riccardo; Cavallo, Carmen; Gozzi, Daniele; Quaranta, Simone JOURNAL OF NANOMATERIALS 1687-4110 pp. 1 - 8
- (99) 2015 - Solid Solutions of Rare Earth Cations in Mesoporous Anatase Beads and Their Performances in Dye-Sensitized Solar Cells Cavallo, Carmen; Salleo, Alberto; Gozzi, Daniele; Di Pascasio, Francesco; Quaranta, Simone; Panetta, Riccardo; Latini, Alessandro SCIENTIFIC REPORTS 2045-2322 pp. 16785-01 - 16785-15
- (100) 2016 - All-optical tuning of EIT-like dielectric metasurfaces by means of chalcogenide phase change materials Petronijevic, E; Sibilia, C. OPTICS EXPRESS 1094-4087 pp. 30411 - 30420
- (101) 2017 - Chiral near-field manipulation in Au-GaAs hybrid hexagonal nanowires Petronijevic, Emilija; Centini, Marco; Belardini, Alessandro; Leahu, Grigore; Hakkarainen, Teemu; Sibilia, Concetta OPTICS EXPRESS 1094-4087 pp. 14148 - 14157
- (102) 2017 - Evidence of Optical Circular Dichroism in GaAs-Based Nanowires Partially Covered with Gold Leahu, Grigore; Petronijevic, Emilija; Belardini, Alessandro; Centini, Marco; Sibilia, Concetta; Hakkarainen, Teemu; Koivusalo, Eero; Rizzo Piton, Marcelo; Suomalainen, Soile; Guina, Mircea ADVANCED OPTICAL MATERIALS 2195-1071 pp. 1601063 -

- (103) 2017 - Self-Phase-Matched Second-Harmonic and White-Light Generation in a Biaxial Zinc Tungstate Single Crystal Osewski, Pawel; Belardini, Alessandro; Petronijevic, Emilija; Centini, Marco; Leahu, Grigore; Diduszko, Ryszard; Pawlak, Dorota A; Sibilia, Concetta SCIENTIFIC REPORTS 2045-2322 pp. 45247 -
- (104) 2017 - Photoacoustic technique for the characterization of plasmonic properties of 2D periodic arrays of gold nanoholes Petronijevic, E.; Leahu, G.; Mussi, V.; Sibilia, C.; Bovino, F.A. AIP ADVANCES 2158-3226 pp. 025210-1 - 025210-7
- (105) 2017 - Photo-acoustic spectroscopy of resonant absorption in III-V semiconductor nanowires Hakkarainen, Teemu*; Leahu, Grigore; Petronijevic, Emilija; Belardini, Alessandro; Centini, Marco; Li Voti, Roberto; Koivusalo, Eero; Piton, Marcelo Rizzo; Guina, Mircea; Sibilia, Concetta
- (106) 2017 - Photo-acoustic spectroscopy revealing resonant absorption of self-assembled GaAs-based nanowires Leahu, Grigore; Petronijevic, Emilija; Belardini, Alessandro; Centini, Marco; Li Voti, Roberto; Hakkarainen, Teemu; Koivusalo, Eero; Guina, Mircea; Sibilia, Concetta SCIENTIFIC REPORTS 2045-2322 pp. 2833 -
- (107) in stampa - Mathematical Model for the Output Signals Energy of an Ideal DAC in the Presence of Clock Jitter Loreti, Paola; SARV AHRABI, Sima; Vellucci, Pierluigi
- (108) 2015 - NEXAFS and XPS studies of nitrosyl chloride L. Schio; C. Li; S. Monti; P. Saln; V. Yarsyna; R. Feifel; M. Alagia; R. Richter; S. Falcinelli; S. Stranges; V. Zhaunerchyk; V. Carravetta PHYSICAL CHEMISTRY CHEMICAL PHYSICS 1463-9084 pp. 9040 - 9048
- (109) 2015 - Complete dissociation branching fractions and Coulomb explosion dynamics of SO₂ induced by excitation of O 1s pre-edge resonances Saln Peter; Yatsyna Vasyl; Schio Luca; Feifel Raimund; af Ugglas Magnus; Richter Robert; Alagia Michele; Stranges Stefano; Zhaunerchyk Vitali THE JOURNAL OF CHEMICAL PHYSICS 0021-9606 pp. 134302-1 - 134302-8
- (110) 2016 - Experimental and theoretical XPS and NEXAFS studies of N-methylacetamide and N-methyltrifluoroacetamide Li, Cui; Salen, Peter; Yatsyna, Vasyl; Schio, Luca; Feifel, Raimund; Squibb, Richard J.; Kaminska, Magdalena; Larsson, Mats; Richter, Robert; Alagia, Michele; Stranges, Stefano; Monti, Susanna; Carravetta, Vincenzo; Zhaunerchyk, Vitali PHYSICAL CHEMISTRY CHEMICAL PHYSICS 1463-9076 pp. 2210 - 2218
- (111) 2016 - A study of H₂O₂ with Threshold Photoelectron Spectroscopy (TPES) and electronic structure calculations: redetermination of the first Adiabatic Ionization Energy (AIE) Schio, Luca; Alagia, Michele; Dias, Antonio A; Falcinelli, Stefano; Zhaunerchyk, Vitali; Lee, Edmond P F; Mok, Daniel K W; Dyke, John M; Stranges, Stefano JOURNAL OF PHYSICAL CHEMISTRY. A, MOLECULES, SPECTROSCOPY, KINETICS, ENVIRONMENT, & GENERAL THEORY 1089-5639 pp. 5220 - 5229
- (112) 2016 - NEXAFS spectroscopy and site-specific fragmentation of N -methylformamide, N,N -dimethylformamide, and N,N -dimethylacetamide Saln, Peter; Yatsyna, Vasyl; Schio, Luca; Feifel, Raimund; Richter, Robert; Alagia, Michele; Stranges, Stefano; Zhaunerchyk, Vitali THE JOURNAL OF CHEMICAL PHYSICS 0021-9606 pp. 244310-1 - 244310-8
- (113) 2016 - Angular and energy distributions of fragment ions in dissociative double photoionization of acetylene molecules in the 31.9-50.0 eV photon energy range Falcinelli, Stefano; Alagia, Michele; Farrar, James M.; Kalogerakis, Konstantinos S.; Pirani, Fernando; Richter, Robert; Schio, Luca; Stranges, Stefano; Rosi, Marzio; Vecchiocattivi, Franco THE JOURNAL OF CHEMICAL PHYSICS 0021-9606 pp. 114308 -

- (114) 2016 - The escape of O⁺ ions from the atmosphere: An explanation of the observed ion density profiles on Mars Falcinelli, Stefano; Pirani, Fernando; Alagia, Michele; Schio, Luca; Richter, Robert; Stranges, Stefano; Vecchiocattivi, Franco CHEMICAL PHYSICS LETTERS 0009-2614 pp. 1 - 6
- (115) 2016 - Molecular dications in planetary atmospheric escape Falcinelli, Stefano; Pirani, Fernando; Alagia, Michele; Schio, Luca; Richter, Robert; Stranges, Stefano; Balucani, Nadia; Vecchiocattivi, Franco ATMOSPHERE 2073-4433 pp. 112-1 - 112-12
- (116) 2017 - Single Photon Thermal Ionization of C₆₀ Hansen, Klavs; Richter, Robert; Alagia, Michele; Stranges, Stefano; Schio, Luca; Saln, Peter; Yatsyna, Vasyl; Feifel, Raimund; Zhaunerchyk, Vitali PHYSICAL REVIEW LETTERS 0031-9007 pp. 103001 -
- (117) 2015 - Combining EXAFS spectroscopy and molecular dynamics simulations to understand the structural and dynamic properties of an imidazolium iodide ionic liquid V. Migliorati; A. Serva; G. Aquilanti; L. Olivi; S. Pascarelli; O. Mathon; P. D'Angelo PHYSICAL CHEMISTRY CHEMICAL PHYSICS 1463-9076 pp. 2464 - 2474
- (118) 2015 - Structural Properties and Aggregation Behavior of 1-Hexyl-3-methylimidazolium Iodide in Aqueous Solutions D'Angelo, Paola; Serva, Alessandra; Aquilanti, Giuliana; Pascarelli, Sakura; Migliorati, Valentina JOURNAL OF PHYSICAL CHEMISTRY. B, CONDENSED MATTER, MATERIALS, SURFACES, INTERFACES & BIOPHYSICAL 1520-6106 pp. 14515 - 14526
- (119) 2015 - Local order and long range correlations in imidazolium halide ionic liquids: a combined molecular dynamics and XAS study V. Migliorati; A. Serva; G. Aquilanti; S. Pascarelli; P. D'Angelo PHYSICAL CHEMISTRY CHEMICAL PHYSICS 1463-9076 pp. 16443 - 16453
- (120) 2016 - Unveiling the complex network of interactions in Ionic Liquids: A combined EXAFS and Molecular Dynamics approach Serva, A.; Migliorati, V.; Lapi, A.; D'Angelo, P. JOURNAL OF PHYSICS. CONFERENCE SERIES 1742-6588 pp. 012135 -
- (121) 2016 - Structural properties of geminal dicationic ionic liquid/water mixtures: a theoretical and experimental insight Serva, Alessandra; Migliorati, Valentina; Lapi, Andrea; Aquilanti, Giuliana; Arcovito, Alessandro; D'Angelo, Paola PHYSICAL CHEMISTRY CHEMICAL PHYSICS 1463-9076 pp. 16544 - 16554
- (122) 2017 - How Does CeIII Nitrate Dissolve in a Protic Ionic Liquid? A Combined Molecular Dynamics and EXAFS Study Serva, Alessandra; Migliorati, Valentina; Spezia, Riccardo; D'Angelo, Paola* CHEMISTRY-A EUROPEAN JOURNAL 0947-6539 pp. 8424 - 8433
- (123) 2017 - Development of Lennard-Jones and Buckingham Potentials for Lanthanoid Ions in Water Migliorati, Valentina*; Serva, Alessandra; Terenzio, Filippo Maria; D'Angelo, Paola INORGANIC CHEMISTRY 0020-1669 pp. 6214 - 6224
- (124) 2015 - Temperature dependence of interband transitions in wurtzite InP nanowires Zilli, Attilio; De Luca, Marta; Tedeschi, Davide; Fonseka, H. Aruni; Miriametro, Antonio; Tan, Hark Hoe; Jagadish, Chennupati; Capizzi, Mario; Polimeni, Antonio ACS NANO 1936-0851 pp. 4277 - 4287
- (125) 2016 - Long-Lived Hot Carriers in III-V Nanowires Tedeschi, D; De Luca, M; Fonseka, H A; Gao, Q; Mura, F; Tan, H H; Rubini, S; Martelli, F; Jagadish, C; Capizzi, M; Polimeni, A NANO LETTERS 1530-6984 pp. 3085-93 - 3093
- (126) 2016 - Effect of the order-disorder transition on the optical properties of Cu₂ZnSnS₄ Valentini, M.; Malerba, C.; Menchini, F.; Tedeschi, D.; Polimeni, A.; Capizzi, M.; Mittiga, A APPLIED PHYSICS LETTERS 0003-6951 pp. 211909 -

- (127) 2016 - Value and Anisotropy of the Electron and Hole Mass in Pure Wurtzite InP Nanowires Tedeschi, D.; De Luca, M.; Granados Del guila, A.; Gao, Q.; Ambrosio, G.; Capizzi, M.; Tan, H.H.; Christianen, P.C.M.; Jagadish, C.; Polimeni, A NANO LETTERS 1530-6984 pp. 6213 - 6221
- (128) 2017 - InPInxGa1-xAs core-multi-shell nanowire quantum wells with tunable emission in the 1.31.55 m wavelength range Fonseka, H. A.; Ameruddin, A. S.; Caroff, P.; Tedeschi, D.; De Luca, M.; Mura, F.; Guo, Y.; Lysevych, M.; Wang, F.; Tan, H. H.; Polimeni, A.; Jagadish, C. NANOSCALE 2040-3364 pp. 13554 - 13562
- (129) 2016 - Functionalized gold nanoparticles for topical delivery of methotrexate for the possible treatment of psoriasis Bessar, H.; Venditti, I.; Benassi, L.; Vaschieri, C.; Azzoni, P.; Pellacani, G.; Magnoni, C.; Botti, E.; Casagrande, V.; Federici, M.; Costanzo, A.; Fontana, L; Testa, G.; Mostafa, F. F.; Ibraim, S. A.; Russo, M.V.; Fratoddi, I. COLLOIDS AND SURFACES. B, BIOINTERFACES 0927-7765 pp. 141 - 147
- (130) 2016 - Hydrophilic silver nanoparticles with tunable optical properties: application for the detection of heavy metals in water Proposito, Paolo; Mochi, Federico; Ciotta, Erica; Casalboni, Mauro; De Matteis, Fabio; Venditti, Iole; Fontana, Laura; Testa, Giovanna; Fratoddi, Ilaria BEILSTEIN JOURNAL OF NANOTECHNOLOGY 2190-4286 pp. 1654 - 1661
- (131) 2015 - Hydrophobic Noble metal nanoparticles: Synthesis, characterization and perspectives as gas sensing materials Bearzotti, A; Fontana, L.; Fratoddi, I.; Venditti, I.; Testa, G.; Rasi, S.; Gatta, V.; Russo, M.V.; Zampetti, E.; Papa, P.; Macagnano, A. PROCEA ENGINEERING 1877-7058 pp. 781 - 786
- (132) 2017 - Hydrophilic Metal Nanoparticles Functionalized by 2-Diethylaminoethanethiol: A Close Look at the Metal-Ligand Interaction and Interface Chemical Structure Venditti, Iole; Testa, Giovanna; Sciubba, Fabio; Carlini, Laura; Porcaro, Francesco; Meneghini, Carlo; Mobilio, Settimio; Battocchio, Chiara; Fratoddi, Ilaria JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES 1932-7447 pp. 8002 - 8013
- (133) 2017 - Y3+embedded in polymeric nanoparticles: Morphology, dimension and stability of composite colloidal system Iole Venditti, Ilaria Fratoddi, Giovanna Testa, Laura Fontana, Antonella Cartoni, Scaramuzzo F.A., Faccini R., Terracciano C.M., Camillocci, E.S., Morganti S., Giordano A., Scotognella T., Rotili D., Dini V., Marini F., COLLOIDS AND SURFACES. A, PHYSICOCHEMICAL AND ENGINEERING ASPECTS 0927-7757 pp. 125 - 131
- (134) 2017 - Comparison between silver and gold nanoparticles stabilized with negatively charged hydrophilic thiols: SR-XPS and SERS as probes for structural differences and similarities Carlini, Laura*; Fasolato, Claudia; Postorino, Paolo; Fratoddi, Ilaria; Venditti, Iole; Testa, Giovanna; Battocchio, Chiara COLLOIDS AND SURFACES. A, PHYSICOCHEMICAL AND ENGINEERING ASPECTS 0927-7757 pp. 183 - 188
- (135) in stampa - Functionalized gold nanoparticles for quality assessment of extravirgin olive oil Rapa, M; Testa, G; Bernacchia, R; Fontana, L; Vinci, G; Venditti, I; Fratoddi, I JOURNAL OF APPLIED BIOMATERIALS & FUNCTIONAL MATERIALS 2280-8000 pp. -
- (136) in stampa - Gold nanoparticles functionalized by rhodamine B isothiocyanate: A new tool to control plasmonic effects Fratoddi, Ilaria; Cartoni, Antonella; Venditti, Iole; Catone, Daniele; O'Keeffe, Patrick; Paladini, Alessandra; Toschi, Francesco; Turchini, Stefano; Sciubba, Fabio; Testa, Giovanna; Battocchio, Chiara; Carlini, Laura; Proietti Zaccaria, Remo; Magnano, Elena; Pis, Igor; Avaldi, Lorenzo JOURNAL OF COLLOID AND INTERFACE SCIENCE 0021-9797 pp. 10 - 19

- (137) Understanding Human Mobility Flows from Aggregated Mobile Phone Data C. Balzotti, A. Bragagnini, M. Briani, E. Cristiani IFAC-CTS 2018