

Peer-reviewed journal articles

1)-Silibinin-conjugated graphene nanoplatform: Synthesis, characterization and biological evaluation

Giulia Neri; Nicola Micale; Angela Scala; Enza Fazio; Antonino Mazzaglia; Placido G. Mineo; Monica Montesi; Silvia Panseri; Anna Tampieri; Giovanni Grassi; Anna Piperno
SUBJECTSilibininSUBJECTGrapheneSUBJECTBioconjugationSUBJECTClick chemistrySUBJECTOsteosarcoma

Flatchem 1 (2017): 34–41.

<https://dx.doi.org/10.1016/j.flatc.2016.10.002>

2)-Green Cleaning Procedures Based on Titania-Doped Cotton Textiles: Effect of Titania Textural Properties

G. Di Carlo; L. F. Liotta; G. Calogero; C. Giuliani; G. M. Ingo
SUBJECTCotton TextilesSUBJECTMesostructured TitaniaSUBJECTPhotocatalytic ActivitySUBJECTSelf-Cleaning Properties.

Journal of nanoscience and nanotechnology (Print) 17 (2017): 3842–3847.

<https://dx.doi.org/10.1166/jnn.2017.14001>

3)-Gold nanoparticles functionalized with PEGylate uncharged porphyrins

P. Mineo a; b; c; d; A. Abbadessa a; A. Mazzaglia e; A. Gulinoa; d; V. Villari c; N. Micali c; S. Millesia; d; C. Satriano a; E. Scamporrino a
SUBJECTPorphyrin;SUBJECTGold;SUBJECTSinglet oxygen;SUBJECTHuman neuroblastoma (SH-SY5Y)

Dyes and pigments 141 (2017): 225–234.

<https://dx.doi.org/10.1016/j.dyepig.2017.02.018>

4)-One-step electric-field driven methane and formaldehyde synthesis from liquid methanol

Cassone, Giuseppe; Pietrucci, Fabio; Saija, Franz; Guyot, Francois; Saitta, A. Marco
SUBJECTAB-INITIO MOLECULAR-DYNAMICS; REACTION PATHWAYS; GAS-PHASE; OXIDATION; WATER; CATALYSTS

Chemical science (Camb. 2010. Print) 8 (2017): 2329–2336.

<https://dx.doi.org/10.1039/c6sc04269d>

5)-Integral equation study of soft-repulsive dimeric fluids.

Munao, Gianmarco; Saija, Franz
SUBJECTthermodynamicsSUBJECTintegral equationsSUBJECTanomalous behaviorsSUBJECTfluid structure

Journal of physics. Condensed matter (Online) 29 (2017): 115101.

<https://dx.doi.org/10.1088/1361-648X/aa5306>

6)-Stability of 2',3' and 3',5' cyclic nucleotides in formamide and in water: a theoretical insight into the factors controlling the accumulation of nucleic acid building blocks in a prebiotic pool

Cassone, Giuseppe; Sponer, Jiri; Saija, Franz; Di Mauro, Ernesto; Saitta, A. Marco; Sponer, Judit E.SUBJECTDENSITY-FUNCTIONAL THEORY; LIQUID FORMAMIDE; 2SUBJECT3-CYCLIC NUCLEOTIDES; MOLECULAR-DYNAMICS; POLYMERIZATION; ORIGIN; SIMULATIONS

PCCP. Physical chemistry chemical physics (Print) 19 (2017): 1817–1825.

<https://dx.doi.org/10.1039/c6cp07993h>

7)-A non-invasive optical method for mapping temperature polarization in direct contact membrane distillation

Santoro S.; Vidorreta I.M.; Sebastian V.; Moro A.; Coelho I. M.; Portugal C. A. M.; Lima J. C.; Desiderio G.; Lombardo G.; Drioli E.; Mallada R.; Crespo J. G.; Criscuoli A.; Figoli A.SUBJECTMembrane DistillationSUBJECTMDSUBJECTthermal membrane processSUBJECTDirect Contact Membrane

Journal of membrane science (Print) (2017).

<https://dx.doi.org/10.1016/J.MEMSCI.2017.05.001>

8)-New technique for femtosecond laser creation of clear corneal incisions for cataract surgery

Serrao, Sebastiano; Giannini, Daniela; Schiano-Lomoriello, Domenico; Lombardo, Giuseppe; Lombardo, MarcoSUBJECTfemtosecond laserSUBJECTcataract incisionSUBJECTsurgery

Journal of cataract and refractive surgery 43 (2017): 80–86.

<https://dx.doi.org/10.1016/j.jcrs.2016.08.038>

9)-Two-photon optical microscopy imaging of endothelial keratoplasty grafts

Lombardo, Marco; Parekh, Mohit; Serrao, Sebastiano; Ruzza, Alessandro; Ferrari, Stefano; Lombardo, Giuseppe; Lombardo, GiuseppeSUBJECTDescemet's membraneSUBJECTEndothelial keratoplastySUBJECTTwo-photon optical microscopy

Graefe's archive for clinical and experimental ophthalmology 255 (2017): 575–582.

<https://dx.doi.org/10.1007/s00417-016-3543-3>

10)-Biomechanical Strengthening of the Human Cornea Induced by Nanoplatfom-Based Transepithelial Riboflavin/UV-A Corneal Cross-Linking

Labate, Cristina; Lombardo, Marco; Lombardo, Giuseppe; De Santo, Maria PenelopeSUBJECTcorneal biomechanical responseSUBJECTatomic force microscopySUBJECTYoung modulusSUBJECTcorneal cross-linking

Investigative ophthalmology & visual science 58 (2017): 179–184.

<https://dx.doi.org/10.1167/iovs.16-20813>

11)-Optical trapping of plasmonic mesocapsules: Enhanced optical forces and SERS

Spadaro, D.; Iatí, M. A.; Pérez-Piñeiro, J.; Vázquez-Vázquez, C.; Correa-Duarte, M. A.; Donato, M. G.; Gucciardi, P. G.; Saija, R.; Strangi, G.; Maragò, O. M. SUBJECTCORE-SHELL NANOPARTICLESSUBJECTGOLD NANOPARTICLESSUBJECTRAMAN-SPECTROSCOPYSUBJECTREFRACTIVE-INDEXSUBJECTTWEEZERSUBJECTNANOSTRUCTURESSUBJECTPARTICLESSUBJECTSCATTERINGSUBJECTNANORODSSUBJECTAU
Journal of physical chemistry. C 121 (2017): 691–700.
<https://dx.doi.org/10.1021/acs.jpcc.6b10213>

12)-Surface plasmon resonance in gold nanoparticles: a review

Amendola, Vincenzo; Pilot, Roberto; Frascioni, Marco; Marago, Onofrio M.; Iati, Maria AntoniaSUBJECTplasmon resonanceSUBJECTgold nanoparticlesSUBJECTMie theorySUBJECTplasmon sensingSUBJECTSERSSUBJECTnear-field enhancement
Journal of physics. Condensed matter (Print) 29 (2017): 203002.
<https://dx.doi.org/10.1088/1361-648X/aa60f3>

13)-Spectral shift between the near-field and far-field optoplasmonic response in gold nanospheres, nanoshells, homo- and hetero-dimers

Cacciola A.; Iati M.A.; Saija R.; Borghese F.; Denti P.; Marago O.M.; Gucciardi P.G.SUBJECTplasmonicaSUBJECTSERSSUBJECTfield-enhancement
Journal of Quantitative Spectroscopy & Radiative Transfer 195 (2017): 97–106.
<https://dx.doi.org/10.1016/j.jqsrt.2016.12.010>

14)-Visible-light-active TiO₂-based hybrid nanocatalysts for environmental applications

Truppi, Alessandra; Truppi, Alessandra; Petronella, Francesca; Placido, Tiziana; Striccoli, Marinella; Agostiano, Angela; Agostiano, Angela; Curri, Maria Lucia; Comparelli, RobertoSUBJECTEnvironmental remediationSUBJECTHeterostructuresSUBJECTNanomaterialsSUBJECTNOxSUBJECTOrganic pollutantsSUBJECTPhotocatalysisSUBJECTSelf-cleaning surfacesSUBJECTSunlightSUBJECTTitanium dioxideSUBJECTVisible lightSUBJECTVOCs
Catalysts 7 (2017).
<https://dx.doi.org/10.3390/catal7040100>

15)-A novel potential nanophototherapeutic based on the assembly of an amphiphilic cationic b-cyclodextrin and an anionic porphyrin

Antonino Mazzaglia; Norberto Micali; Valentina Villari; Roberto Zagami; Rosa Maria Pennisi; Carmen Ortiz Mellet; José Manuel Garcia Fernández; Maria Teresa Sciortino; Luigi Monsù ScolaroSUBJECTphotosensitizersSUBJECTcyclodextrinsSUBJECTnanoassembliesSUBJECTfluorescence spectroscopy
Journal of porphyrins and phthalocyanines 21 (2017): 398–405.
<https://dx.doi.org/10.1142/S108842461750033X>

16)-Ionic diffusion and proton transfer in aqueous solutions of alkali metal salts

Cassone, Giuseppe; Creazzo, Fabrizio; Giaquinta, Paolo V.; Sponer, Jiri; Saija, FranzSUBJECTab-initio molecular dynamicsSUBJECTdensity functional theorySUBJECTaqueous solutions

PCCP. Physical chemistry chemical physics (Print) 19 (2017): 20420–20429.

<https://dx.doi.org/10.1039/c7cp03663a>

17)-A spectroscopic approach to the study of organic pigments in the field of cultural heritage

Nardo V.M.; Aliotta F.; Mastelloni M.A.; Ponterio R.C.; Saija F.; Trusso S.; Vasi C.S.SUBJECTRaman spectroscopy

Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali (Testo stampato) 95 (2017).

<https://dx.doi.org/10.1478/AAPP.951A5>

18)-Novel electrochemical route to cleaner fuel dimethyl ether.

Cassone, Giuseppe; Pietrucci, Fabio; Saija, Franz; Guyot, Francois; Sponer, Jiri; Sponer, Judit E; Saitta, A MarcoSUBJECTabinitio molecular dynamics

Scientific reports (Nature Publishing Group) 7 (2017): 6901.

<https://dx.doi.org/10.1038/s41598-017-07187-8>

19)-Assessment of stromal riboflavin concentration-depth profile in nanotechnology-based transepithelial corneal crosslinking

Lombardo, Giuseppe; Micali, Norberto Liborio; Villari, Valentina; Leone, Nancy; Serrao, Sebastiano; Rusciano, Dario; Lombardo, MarcoSUBJECTtwo photon microscopySUBJECTspectroscopySUBJECTriboflavinSUBJECTcorneal crosslinking

Journal of cataract and refractive surgery 43 (2017): 680–686.

<https://dx.doi.org/10.1016/j.jcrs.2017.03.026>

20)-Reliability and Agreement Between Metrics of Cone Spacing in Adaptive Optics Images of the Human Retinal Photoreceptor Mosaic

Giannini, Daniela; Lombardo, Giuseppe; Mariotti, Letizia; Devaney, Nicholas; Serrao, Sebastiano; Lombardo, MarcoSUBJECTadaptive opticsSUBJECTcell spacingSUBJECTcone metrics

Investigative ophthalmology & visual science 58 (2017): 3127–3137.

<https://dx.doi.org/10.1167/iovs.16-20890>

21)-Multimodal imaging quality control of epithelia regenerated with cultured human donor corneal limbal epithelial stem cells

Lombardo, Marco; Serrao, Sebastiano; Barbaro, Vanessa; Di Iorio, Enzo; Lombardo, GiuseppeSUBJECTTwo photon microscopySUBJECTsecond harmonic generationSUBJECTtensor structureSUBJECTstem cells

Scientific reports (Nature Publishing Group) 7 (2017).

<https://dx.doi.org/10.1038/s41598-017-05486-8>

22)-Analysis of Cone Mosaic Reflectance Properties in Healthy Eyes and in Eyes With Nonproliferative Diabetic Retinopathy Over Time.

Mariotti, Letizia; Devaney, Nicholas; Lombardo, Giuseppe; Lombardo, MarcoSUBJECTcone reflectanceSUBJECTconesSUBJECTphotoreceptorsSUBJECTdiabetic retinopathySUBJECTadaptive optics

Investigative ophthalmology & visual science 58 (2017): 4057–4067.

<https://dx.doi.org/10.1167/iovs.17-21932>

23)-Functional Enzymes in Nonaqueous Environment: The Case of Photosynthetic Reaction Centers in Deep Eutectic Solvents

Milano, Francesco; Giotta, Livia; Guascito, Maria Rachele; Agostiano, Angela; Sblendorio, Stefania; Valli, Ludovico; Perna, Filippo M.; Cicco, Luciana; Trotta, Massimo; Capriati, VitoSUBJECTDeep eutectic solventsSUBJECTCholine chlorideSUBJECTMembrane proteinSUBJECTReaction centersSUBJECTPhotosynthesis

ACS sustainable chemistry & engineering 5 (2017): 7768–7776.

<https://dx.doi.org/10.1021/acssuschemeng.7b01270>

24)-Alteration of neurotransmission and skeletogenesis in sea urchin *Arbacia lixula* embryos exposed to copper oxide nanoparticles

Cappello; Tiziana; Vitale; Valeria; Oliva; Sabrina; Villari; Valentina; Mauceri; Angela; Fasulo; Salvatore; Maisano; MariaSUBJECTCuO nanoparticlesSUBJECTEmbryotoxicity test

Comparative biochemistry and physiology. Toxicology & pharmacology (Print) 199 (2017): 20–27.

<https://dx.doi.org/10.1016/j.cbpc.2017.02.002>

25)-A Metalloporphyrin-Peptide Conjugate as an Effective Inhibitor of Amyloid-beta Peptide Fibrillation and Cytotoxicity

Villari; Valentina; Tosto; Rita; Di Natale; Giuseppe; Sinopoli; Alessandro; Tomasello; Marianna F.; Lazzaro; Serena; Micali; Norberto; Pappalardo; GiuseppeSUBJECTBeta-AmyloidSUBJECTbeta-sheet breakerSUBJECTporphyrin derivativeSUBJECTSpectroscopic techniquesSUBJECTToxicity test

ChemistrySelect 2 (2017): 9122–9129.

<https://dx.doi.org/10.1002/slet.201701148>

26)-Anomalous Behavior of Ultra-Low -AmplitudeCapillary Waves. A Glimpse of the Viscoelastic Properties of Interfacial Water?

Raudino, Antonio; Raciti, Domenica; Corti, MarioSUBJECTwaterSUBJECTInterface

Langmuir 33 (2017): 6439–6448.

<https://dx.doi.org/10.1021/acs.langmuir.7b00895>

27)-An interferometric technique to study capillary waves

Cantu, Laura; Raudino, Antonio; Corti, MarioSUBJECTInterferometrySUBJECTCapillary wavesSUBJECTSurfactant monolayersSUBJECTAir-water interfaceSUBJECTLiquid-liquid interface

Advances in colloid and interface science (Print) 247 (2017): 23–32.

<https://dx.doi.org/10.1016/j.cis.2017.06.006>

28)-Calorimetric analysis points out the physical-chemistry of organic olive oils and reveals the geographical origin

Mallamace, Domenico; Vasi, Sebastiano; Corsaro, Carmelo; Naccari, Clara; Clodoveo, Maria Lisa; Dugo, Giacomo; Cicero, NicolaSUBJECTDifferential scanning calorimetrySUBJECTTeVOOSUBJECTTraceabilitySUBJECTPCA

Physica. A (Print) 486 (2017): 925–932.

<https://dx.doi.org/10.1016/j.physa.2017.06.015>

29)-New generation of ultrasensitive label- free optical Si nanowire-based biosensors

Alessia Irrera 1; Antonio Alessio Leonardi 1; 2; 3; 4; Cinzia Di Franco 5; Maria José Lo Faro 1; Gerardo Palazzo 6; Cristiano D'Andrea 1; 7; Kyriaki Manoli 5; Giorgia Franzo 3; Paolo Musumeci 2; Barbara fazio 1; Luisa Torsi 6; Francesco Priolo 2; 3; 8SUBJECTSiliconSUBJECTNanowiresSUBJECTBiosensorSUBJECTPhotoluminescenceSUBJECTC-Reactive Protein

ACS photonics (2017).

<https://dx.doi.org/10.1021/acsphotonics.7b00983>

30)-Coherent backscattering of Raman light

Fazio, Barbara; Irrera, Alessia; Pirotta, Stefano; D'Andrea, Cristiano; Del Sorbo, Salvatore; Lo Faro, Maria Jose; Gucciardi, Pietro Giuseppe; Iati, Maria Antonia; Saija, Rosalba; Patrini, Maddalena; Musumeci, Paolo; Vasi, Cirino Salvatore; Wiersma, Diederik S.; Galli, Matteo; Priolo, FrancescoSUBJECTRAMANSUBJECTCOHERENT BACKSCATTERING

Nature photonics (Print) 11 (2017): 170–+.

<https://dx.doi.org/10.1038/NPHOTON.2016.278>

31)-Virial coefficients, equation of state, and demixing of binary asymmetric nonadditive hard-disk mixtures

Fiumara, Giacomo; Saija, Franz; Pellicane, Giuseppe; Lopez de Haro, Mariano; Santos, Andres; Yuste, Santos B.SUBJECTvirial coefficientsSUBJECTequation of stateSUBJECTHard-disk

The Journal of chemical physics 147 (2017).

<https://dx.doi.org/10.1063/1.4990614>

32)-Partial reduction of graphene oxide upon intercalation into exfoliated manganese thiophosphate

Silipigni, L.; Basile, A.; Barreca, F.; De Luca, G.; Scolaro, L. Monsu; Fazio, B.; Salvato, G.SUBJECTAFMSUBJECTnanocompositesSUBJECTRaman spectroscopySUBJECTSEMSUBJECTthin filmsSUBJECTXPSUBJECTXRD

Philosophical magazine (2003, Print) 97 (2017): 2484–2495.

<https://dx.doi.org/10.1080/14786435.2017.1341648>

33)-Optical Binding of Nanowires

Simpson, Stephen H.; Zemanek, Pavel; Marago, Onofrio M.; Jones, Philip H.; Hanna, SimonSUBJECTOptical binding nanowiresSUBJECTBrownian motionSUBJECTself-organizationSUBJECTnonequilibrium thermodynamicsSUBJECTnonequilibrium steady stateSUBJECTspin-orbit couplingSUBJECTemergent phenomena

Nano letters (Print) 17 (2017): 3485–3492.

<https://dx.doi.org/10.1021/acs.nanolett.7b00494>

34)-Laser-generated plasmas by graphene nanoplatelets embedded into polyethylene

Torrise, L.; Ceccio, G.; Restuccia, N.; Messina, E.; Gucciardi, P. G.; Cutroneo, M.SUBJECTAdvanced targetsSUBJECTAu NPSUBJECTGrapheneSUBJECTLaser-generated plasmaSUBJECTTime-of-flight measurements

Laser and particle beams (Print) 35 (2017): 294–303.

<https://dx.doi.org/10.1017/S0263034617000179>

35)-Ferdinando Borghese (26 May 1940-19 January 2017)

Iati, M. A.; Saija, R.; Marago, O. M.; Denti, P.SUBJECTLight scatteringSUBJECTT-matrixSUBJECTInterstellar dustSUBJECTAerosol scienceSUBJECTPlasmonicsSUBJECTMechanical effects of lightSUBJECTOptical trapping

Journal of Quantitative Spectroscopy & Radiative Transfer 201 (2017): 226–228.

<https://dx.doi.org/10.1016/j.jqsrt.2017.07.020>

36)-Polarization properties of the SERS radiation scattered by linear nanoantennas with two distinct localized plasmon resonances

Foti A.; D'Andrea C.; Toma A.; Fazio B.; Messina E.; Marago O.M.; Di Fabrizio E.; de La Chapelle M.L.; Gucciardi P.G.SUBJECT--

NATO science for peace and security series. B, Physics and biophysics (Print) (2017): 503–504.

https://dx.doi.org/10.1007/978-94-024-0850-8_51

37)-Probing the functionality of nanostructured MnCeOx catalysts in the carbon monoxide oxidation Part I. Influence of cerium addition on structure and CO oxidation activity

Arena, Francesco; Di Chio, Roberto; Fazio, Barbara; Espro, Claudia; Spiccia, Leone; Palella, Alessandra; Spadaro, LorenzoSUBJECTNanostructured MnCeOx catalystsSUBJECTStructural and electronic effectsSUBJECTCO oxidationSUBJECTStructure-activity relationshipsSUBJECTActive sites

Applied catalysis. B, Environmental (Print) 210 (2017): 14–22.

<https://dx.doi.org/10.1016/j.apcatb.2017.03.049>

38)-A neutron study of sealed pottery from the gravegoods of Kha and Merit

C. Andreani; beg F. Aliotta; b L. Arcidiacono; e M. Borla; f D. Di Martino; h F. Facchetti; d E. Ferraris; d G. Festa; *e G. Gorini; h W. Kockelmann; j J. Kelleher; j D. Malfitana; a D. Micieli; i T. Minniti; *j E. Perelli Cippo; c R. Ponterio; b G. Salvato; b R. Senesi; beg V. Turina; d C. Vasi; b; C. Greco; dSUBJECTneutronSUBJECTpottery

Journal of analytical atomic spectrometry (Print) (2017).

<https://dx.doi.org/10.1039/c7ja00099e>

39)-Combined experimental and DFT-TDDFT investigation on anthocyanidins for application in dye-sensitised solar cells

Sinopoli, Alessandro; Citro, Ilaria; Calogero, Giuseppe; Bartolotta, AntonioSUBJECTDye-sensitized solar cellsSUBJECTanthocyanidinsSUBJECTTD-DFTSUBJECTabsorption spectra
Dyes and pigments 143 (2017): 291–300.

<https://dx.doi.org/10.1016/j.dyepig.2017.04.018>

40)-Laser tailored nanoparticle arrays to detect molecules at dilute concentration

Zanchi, Chiara; Lucotti, Andrea; Tommasini, Matteo; Trusso, Sebastiano; de Grazia, Ugo; Ciusani, Emilio; Ossi, Paolo M.SUBJECTPulsed laser depositionSUBJECTSelf-assembled nano-roughened filmsSUBJECTAu nanoparticlesSUBJECTSERSSUBJECTDFTSUBJECTApomorphineSUBJECTCarbamazepine
Applied surface science 396 (2017): 1866–1874.

<https://dx.doi.org/10.1016/j.apsusc.2016.03.147>

41)-Light-emitting silicon nanowires obtained by metal-assisted chemical etching

Irrera, Alessia; Lo Faro, Maria Jose; D'Andrea, Cristiano; Leonardi, Antonio Alessio; Artoni, Pietro; Fazio, Barbara; Picca, Rosaria Anna; Cioffi, Nicola; Trusso, Sebastiano; Franzo, Giorgia; Musumeci, Paolo; Priolo, Francesco; Iacona, FabioSUBJECTSi nanowiresSUBJECTphotonic applicationsSUBJECTphotoluminescenceSUBJECTmetal-assisted chemical etchingSUBJECTRaman spectroscopySUBJECTelectroluminescenceSUBJECTpulsed laser deposition
Semiconductor science and technology (Print) 32 (2017).

<https://dx.doi.org/10.1088/1361-6641/aa60b8>

42)-Poly(carboxylic acid)-Cyclodextrin/Anionic Porphyrin Finished Fabrics as Photosensitizer Releasers for Antimicrobial Photodynamic Therapy

Castriciano, Maria Angela; Zagami, Roberto; Casaletto, Maria Pia; Martel, Bernard; Trapani, Mariachiara; Romeo, Andrea; Villari, Valentina; Sciortino, Maria Teresa; Grasso, Laura; Guglielmino, Salvatore; Scolaro, Luigi Monsu; Mazzaglia, AntoninoSUBJECTphotosensitizersSUBJECTcyclodextrinSUBJECTOptical propertiesSUBJECTphotodynamic therapy
Biomacromolecules 18 (2017): 1134–1144.

<https://dx.doi.org/10.1021/acs.biomac.6b01752>

43)-Electronic and charge transfer properties of bio-inspired flavylum ions for applications in TiO₂-based dye-sensitized solar cells

Calogero, Giuseppe; Citro, Ilaria; Di Marco, Gaetano; Caramori, Stefano; Casarin, Laura; Bignozzi, Carlo Alberto; Avo, Joao; Jorge Parola, A.; Pina, Fernando

Photochemical & photobiological sciences (Print) 16 (2017): 1400–1414.

<https://dx.doi.org/10.1039/c7pp00039a>

44)-Characterisation of the incident beam and current diffraction capabilities on the VESUVIO spectrometer

Romanelli G.; Krzystyniak M.; Senesi R.; Raspino D.; Boxall J.; Pooley D.; Moorby S.; Schooneveld E.; Rhodes N.J.; Andreani C.; Fernandez-Alonso F.

Measurement science & technology (Print) 28 (2017).

<https://dx.doi.org/10.1088/1361-6501/aa7c2a>

45)-Characterization of gamma-ray background at IMAT beamline of ISIS Spallation Neutron Source

Festa, G.; Andreani, C.; Andreani, C.; Andreani, C.; Arcidiacono, L.; Arcidiacono, L.; Arcidiacono, L.; Burca, G.; Kockelmann, W.; Minniti, T.; Senesi, R.; Senesi, R.; Senesi, R.

Journal of instrumentation 12 (2017).

<https://dx.doi.org/10.1088/1748-0221/12/08/P08005>

46)-Randomized Controlled Trial Comparing Transepithelial Corneal Cross-linking Using Iontophoresis with the Dresden Protocol in Progressive Keratoconus.

Lombardo, Marco; Giannini, Daniela; Lombardo, Giuseppe; Serrao, Sebastiano

Ophthalmology (Rochester Minn.) 124 (2017): 804–812.

<https://dx.doi.org/10.1016/j.ophtha.2017.01.040>

47)-Orthodontic archwire composition and phase analyses by neutron spectroscopy

Tian, Kun V.; Tian, Kun V.; Tian, Kun V.; Tian, Kun V.; Tian, Kun V.; Festa, Giulia; Festa, Giulia; Festa, Giulia; Festa, Giulia; Basoli, Francesco; Laganà, Giuseppina; Laganà, Giuseppina; Scherillo, Antonella; Andreani, Carla; Andreani, Carla; Andreani, Carla; Andreani, Carla; Bollero, Patrizio; Licoccia, Silvia; Licoccia, Silvia; Senesi, Roberto; Senesi, Roberto; Cozza, Paola; Cozza, Paola

Dental materials journal 36 (2017): 282–288.

<https://dx.doi.org/10.4012/dmj.2016-206>

48)-Synthesis, characterization and aggregation behavior of room temperature ionic liquid based on porphyrin-trihexyl(tetradecyl)phosphonium adduct

Zagami, R.; Trapani, M.; Castriciano, M. A.; Romeo, A.; Mineo, P. G.; Scolaro, L. MonsuSUBJECTIonic

liquidsSUBJECTPorphyrinSUBJECTAggregationSUBJECTChiralitySUBJECTSpectroscopic investigations

Journal of molecular liquids (Print) 229 (2017): 51–57.

<https://dx.doi.org/10.1016/j.molliq.2016.12.022>

49)-Enrichment, isolation and biodegradation potential of psychrotolerant polychlorinated-biphenyl degrading bacteria from the Kongsfjorden (Svalbard Islands, High Arctic Norway)

Papale M.; Giannarelli S.; Francesconi S.; Di Marco G.; Mikkonen A.; Conte A.; Rizzo C.; De Domenico E.; Michaud L.; Giudice A.L.SUBJECTCold-adapted bacteria Polychlorobiphenyls Contamination level Arctic fjord Biodegradation

Marine pollution bulletin. 114 (2017): 849–859.

<https://dx.doi.org/10.1016/j.marpolbul.2016.11.011>

50)-Structural characterization in mixed lipid membrane systems by neutron and X-ray scattering

Kiselev M.A.; Lombardo D.SUBJECTBio-membranesSUBJECTLipids and phospholipidsSUBJECTLiposomesSUBJECTSmall angle neutron scatteringSUBJECTSmall angle X-ray scattering

Biochimica et biophysica acta. G, General subjects (Print) 1861 (2017): 3700–3717.

<https://dx.doi.org/10.1016/j.bbagen.2016.04.022>

51)-The interaction and binding of flavonoids to human serum albumin modify its conformation, stability and resistance against aggregation and oxidative injuries

Barreca D.; Lagana G.; Toscano G.; Calandra P.; Kiselev M.A.; Lombardo D.; Bellocco E.SUBJECTFlavonoidSUBJECTFluorescenceSUBJECTFTIRSUBJECTHuman serum albuminSUBJECTOxidative stresses and protein fibrillationSUBJECTThermodynamic and kinetic variations.

Biochimica et biophysica acta. G, General subjects (Print) 1861 (2017): 3531–3539.

<https://dx.doi.org/10.1016/j.bbagen.2016.03.014>

52)-Relativistic phenomenological equations and transformation laws of relative coefficients

Rogolino P.; Farsaci F.SUBJECT.

Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali (Online) 95 (2017).

<https://dx.doi.org/10.1478/AAPP.951A4>

53)-Rheological properties of human blood in the network of non-equilibrium thermodynamic with internal variables by means of ultrasound wave perturbation

Farsaci F.; Tellone E.; Russo A.; Galtieri A.; Ficarra S.
SUBJECTBlood
SUBJECTErythrocytes
SUBJECTNon-equilibrium
thermodynamic
SUBJECTUltrasound

Journal of molecular liquids (Print) 231 (2017): 206–212.

<https://dx.doi.org/10.1016/j.molliq.2017.02.001>

54)-Strategies for the enhancement of heat storage materials performances for MgO/H₂O/Mg(OH)₂ thermochemical storage system

Mastronardo, Emanuela; Bonaccorsi, Lucio; Kato, Yukitaka; Piperopoulos, Elpida; Lanza, Maurizio; Milone, Candida
SUBJECTThermochemical storage
SUBJECTDeposition-precipitation
SUBJECTReverse deposition-precipitation
SUBJECTMagnesium hydroxide
SUBJECTExfoliated graphite

Applied thermal engineering 120 (2017): 626–634.

<https://dx.doi.org/10.1016/j.applthermaleng.2017.04.004>

55)-Synthesis and Characterization of a Series of Bis-homoleptic Cycloruthenates with Terdentate Ligands as a Family of Panchromatic Dyes

Rees T.W.; Liao J.; Sinopoli A.; Male L.; Calogero G.; Curchod B.F.E.; Baranoff E.
SUBJECTSolae Energy

Inorganic chemistry (Online) 56 (2017): 9903–9912.

<https://dx.doi.org/10.1021/acs.inorgchem.7b01412>

56)-A New Non-Equilibrium Thermodynamic Fractional Visco-Inelastic Model to Predict Experimentally Inaccessible Processes and Investigate Pathophysiological Cellular Structures

Farsaci; Francesco; Ficarra; Silvana; Galtieri; Antonio; Tellone; Ester
SUBJECTnon-equilibrium thermodynamics
SUBJECTfractional models
SUBJECTpathophysiological cellular structures
SUBJECTHUMAN BLOODS
SUBJECTVISCOANELASTIC MEDIAS
SUBJECTORDER ONES
SUBJECTMEMORY

FLUIDS 2 (2017).

<https://dx.doi.org/10.3390/fluids2040059>

57)-Mo.nalis.a: a methodological approach to identify how to meet thermal industrial needs using already available geothermal resources

Delia Evelina Bruno; Lombardo Giuseppe; Di Sipio Eloisa; Galgaro Antonio; D'Arpa Stefania; Destro Elisa; Passarella Giuseppe; Barca Emanuele; Uricchio Vito Felice; Manzella Adele
SUBJECTGeothermal heat . Industrial thermal needs . Energetic model . Renewable energy. Groundwater and ground source heat pumps

Energy efficiency (Print) (2017).

<https://dx.doi.org/10.1007/s12053-016-9481-4>

58)-Enhancing the molecular cooperativity of polyvinyl butyral using liquid additives

Carini G.; Carini G.; D'Angelo G.; Federico M.; Marco G.D.; Bartolotta A. SUBJECT activation entropy; dielectric relaxations; mechanical relaxations; polyvinyl butyral
Journal of polymer science. Part B, Polymer physics (2017).
<https://dx.doi.org/10.1002/polb.24547>

59)-Random optical media based on hybrid organic-inorganic nanowires: Multiple scattering, field localization, and light diffusion

Persano L.; Moffa M.; Fasano V.; Portone A.; Romano L.; Fazio B.; Saija R.; Iati M.A.; Camposeo A.; Marago O.M.; Pisignano D. SUBJECT coherent backscattering SUBJECT electrospinning SUBJECT light-scattering SUBJECT nanocomposites SUBJECT nanowires
Proceedings of SPIE, the International Society for Optical Engineering 10101 (2017).
<https://dx.doi.org/10.1117/12.2263663>

Other publications (journals without peer review, book reviews,etc.)

1)-SISTEMI IBRIDI NANO-STRUTTURATI A BASE PORFIRINICA PER APPLICAZIONI BIOMEDICHE

Antonio Abbadessa; a Emilio Scamporrino; a Angelo Nicosia; a Antonino Mazzaglia; c Valentina Villari; b Norberto Micali; b Cristina Satriano; a; Placido Mineoa; bSUBJECTPorphyrinSUBJECTGoldSUBJECTSinglet OxygenSUBJECTHuman Neuroblastoma (SUBJECTSH-SY5Y)

Società Chimica Italiana Workshop delle Sezioni Sicilia e Calabria, pp. CO-27–CO-27, Messina, 9-10/02/2017

<http://www.cnr.it/prodotto/i/367241>

info:cnr-pdr/source/autori:Antonio Abbadessa,a Emilio Scamporrino,a Angelo Nicosia,a Antonino Mazzaglia,c Valentina Villari,b Norberto Micali,b Cristina Satriano,a and Placido Mineoa,b/congresso_nome:Società Chimica Italiana Workshop delle Sezioni Sicilia e Calabria/congresso_luogo:Messina/congresso_data:9-10/02/2017/anno:2017/pagina_da:CO-27/pagina_a:CO-27/intervallo_pagine:CO-27–CO-27

2)-Magnetic Solid Lipid Nanoparticles for Magnetically Targeted Delivery of Sorafenib for Treatment of Hepatocellular Carcinoma

Fabio Vischio(a); Nicoletta Depalo(a); Ilaria Arduino(b); Silvia Villa(c); Fabio Canepa(c); Elisabetta Fanizza(a; d); San Hee Lee(e); Byung Chul Lee(e); Rosa Maria Iacobazzi(f); Valentino Laquintana(b); Angela Lopodota(b); Annalisa Cutrignelli(b); Maria Principia Scavo(f); Marinella Striccoli(a); Angela Agostiano(a; d); M. Lucia Curri(a); Nunzio Denora(b)SUBJECTDrug deliverySUBJECTSorafenibSUBJECTMagnetic nanoparticlesSUBJECTSolid lipid nanoparticles

XXVI Congresso Nazionale della Società Chimica Italiana, Paestum, 10-14/09/2017

<http://www.cnr.it/prodotto/i/377880>

info:cnr-pdr/source/autori:Fabio Vischio(a), Nicoletta Depalo(a), Ilaria Arduino(b), Silvia Villa(c), Fabio Canepa(c), Elisabetta Fanizza(a,d), San Hee Lee(e), Byung Chul Lee(e), Rosa Maria Iacobazzi(f), Valentino Laquintana(b), Angela Lopodota(b), Annalisa Cutrignelli(b), Maria Principia Scavo(f), Marinella Striccoli(a), Angela Agostiano(a,d), M. Lucia Curri(a), Nunzio Denora(b)/congresso_nome:XXVI Congresso Nazionale della Società Chimica Italiana/congresso_luogo:Paestum/congresso_data:10-14/09/2017/anno:2017/pagina_da:/pagina_a:/intervallo_pagine:

3)-NMR Methodologies in Food Analysis

Luisa Mannina; Anatoly Petrovich Sobolev; Violetta Aru; Alessia Bellomaria; Fabio Bertocchi; Bruno Botta; Laura Ruth Cagliani; Augusta Caligiani; Francesco Capozzi; Dorisa Çela; Flaminia Cesare Marincola; Alessandra Ciampa; Laura Del Coco; Roberto Consonni; Carmelo Corsaro; Maurizio Delfini; Valeria Di Tullio; Francesco Paolo Fanizzi; Vito Gallo; Francesca Ghirga; Raffaella Gianferri; Chiara Roberta Girelli; Cinzia Ingallina; Luca Laghi; Mario Latronico;

Francesco Longobardi; Claudio Luchinat; Domenico Mallamace; Stefano Mammi; Walter Mandaliti; Federico Marini; Pietro Mastrorilli; Pierluigi Mazzei; Alfredo Miccheli; Alessandra Micozzi; Salvatore Milone; Adele Mucci; Ridvan Nepravishta; Maurizio Paci; Angelica Palisi; Alessandro Piccolo; Gianfranco Picone; Noemi Proietti; Antonio Randazzo; Valeria Righi; Archimede Rotondo; Andrea Salvo; Francesco Savorani; Paola Scano; ; Elisabetta Schievano; Fabio Sciubba; Leonardo Tenori; Alessia Trimigno; Paola Turano; Sebastiano Vasi; Donatella Capitani

SUBJECTNMRSUBJECTfood scienceSUBJECTfood compositionSUBJECTchemometrics

Analytical Chemistry: Developments, Applications and Challenges in Food Analysis, edited by Marcello Locatelli and Christian Celia. New York: Nova Science Publishers, Inc., 2017

https://www.novapublishers.com/catalog/product_info.php?products_id=62688

info:cnr-pdr/source/autori:Luisa Mannina, Anatoly Petrovich Sobolev, Violetta Aru, Alessia Bellomaria, Fabio Bertocchi, Bruno Botta, Laura Ruth Cagliani, Augusta Caligiani, Francesco Capozzi, Dorisa Çela, Flaminia Cesare Marincola, Alessandra Ciampa, Laura Del Coco, Roberto Consonni, Carmelo Corsaro, Maurizio Delfini, Valeria Di Tullio, Francesco Paolo Fanizzi, Vito Gallo, Francesca Ghirga, Raffaella Gianferri, Chiara Roberta Girelli, Cinzia Ingallina, Luca Laghi, Mario Latronico, Francesco Longobardi, Claudio Luchinat, Domenico Mallamace, Stefano Mammi, Walter Mandaliti, Federico Marini, Pietro Mastrorilli, Pierluigi Mazzei, Alfredo Miccheli, Alessandra Micozzi, Salvatore Milone, Adele Mucci, Ridvan Nepravishta, Maurizio Paci, Angelica Palisi, Alessandro Piccolo, Gianfranco Picone, Noemi Proietti, Antonio Randazzo, Valeria Righi, Archimede Rotondo, Andrea Salvo, Francesco Savorani, Paola Scano, , Elisabetta Schievano, Fabio Sciubba, Leonardo Tenori, Alessia Trimigno, Paola Turano, Sebastiano Vasi and Donatella Capitani/titolo:NMR Methodologies in Food Analysis/titolo_volume:Analytical Chemistry: Developments, Applications and Challenges in Food Analysis/curatori_volume:Marcello Locatelli and Christian Celia/editore:

/anno:2017

4)-NMR Applications in Food Analysis: Part B

Anatoly Petrovich Sobolev; Luisa Mannina; Violetta Aru; Alessia Bellomaria; Fabio Bertocchi; Bruno Botta; Laura Ruth Cagliani; Augusta Caligiani; Francesco Capozzi; Dorisa Çela; Flaminia Cesare Marincola; Alessandra Ciampa; Laura Del Coco; Roberto Consonni; Carmelo Corsaro; Maurizio Delfini; Valeria Di Tullio; Francesco Paolo Fanizzi; Vito Gallo; Francesca Ghirga; Raffaella Gianferri; Chiara Roberta Girelli; Cinzia Ingallina; Luca Laghi; Mario Latronico; Francesco Longobardi; Claudio Luchinat; Domenico Mallamace; Stefano Mammi; Walter Mandaliti; Federico Marini; Pietro Mastrorilli; Pierluigi Mazzei; Alfredo Miccheli; Alessandra Micozzi; Salvatore Milone; Adele Mucci; Ridvan Nepravishta; Maurizio Paci; Angelica Palisi; Alessandro Piccolo; Gianfranco Picone; Noemi Proietti; Antonio Randazzo; Valeria Righi; Archimede Rotondo; Andrea Salvo; Francesco Savorani; Paola Scano; ; Elisabetta Schievano;

Fabio Sciubba; Leonardo Tenori; Alessia Trimigno; Paola Turano; Sebastiano Vasi; Donatella Capitani
SUBJECTNMRSUBJECTfood scienceSUBJECTfood compositionSUBJECTchemometrics

Analytical Chemistry: Developments, Applications and Challenges in Food Analysis, edited by Marcello Locatelli and Christian Celia. New York: Nova Science Publishers, Inc., 2017

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/anno:2017

5)-NMR Applications in Food Analysis: Part A

Anatoly Petrovich Sobolev; Luisa Mannina; Violetta Aru; Alessia Bellomaria; Fabio Bertocchi; Bruno Botta; Laura Ruth Cagliani; Augusta Caligiani; Francesco Capozzi; Dorisa Çela; Flaminia Cesare Marincola; Alessandra Ciampa; Laura Del Coco; Roberto Consonni; Carmelo Corsaro; Maurizio Delfini; Valeria Di Tullio; Francesco Paolo Fanizzi; Vito Gallo; Francesca Ghirga; Raffaella Gianferri; Chiara Roberta Girelli; Cinzia Ingallina; Luca Laghi; Mario Latronico; Francesco Longobardi; Claudio Luchinat; Domenico Mallamace; Stefano Mammi; Walter Mandaliti; Federico Marini; Pietro Mastroilli; Pierluigi Mazzei; Alfredo Miccheli; Alessandra Micozzi; Salvatore Milone; Adele Mucci; Ridvan Nepravishta; Maurizio Paci; Angelica Palisi; Alessandro Piccolo; Gianfranco Picone; Noemi Proietti; Antonio Randazzo; Valeria Righi; Archimede Rotondo; Andrea Salvo; Francesco Savorani; Paola Scano; ; Elisabetta Schievano; Fabio Sciubba; Leonardo Tenori; Alessia Trimigno; Paola Turano; Sebastiano Vasi; Donatella Capitani
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/anno:2017

6)-Characterization of Pathogenic Amyloids by Tip Enhanced Raman Spectroscopy

Cristiano D'Andrea1; *, Antonino Foti2; Maximillien Cottat1; Marella De Angelis1; Fabrizio Chiti3; Roberto Pini1; Pietro Giuseppe Gucciardi2 Paolo Matteini1SUBJECTTersSUBJECTRamanSUBJECTOligomersSUBJECTBiosensing
ICES 2017 - International Conference on Enhanced Spectroscopies, pp. 28–28, Munich, 03/09/2017,07/09/2017

<http://www.ices2017.cup.uni-muenchen.de/site/assets/files/1038/programm-1.pdf>

info:cnr-pdr/source/autori:Cristiano D'Andrea1,*,
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Marella De Angelis1,
Fabrizio Chiti3,
Roberto Pini1,
Pietro Giuseppe Gucciardi2

Paolo Matteini1/congresso_nome:ICES 2017 - International Conference on Enhanced Spectroscopies/congresso_luogo:Munich/congresso_data:03/09/2017,07/09/2017/anno:2017/pagina_da:28/pagina_a:28/intervallo_pagine:28–28

7)-Magnetically Targeted Delivery of Sorafenib to Liver Using Solid Lipid Nanoparticles for Treatment of Hepatocellular Carcinoma

Nicoletta Depalo(a); Fabio Vischio(a); Ilaria Arduino(b); Silvia Villa(c); Fabio Canepa(c); Elisabetta Fanizza(a; d); Byung Chul Lee(e); Valentino Laquintana(b); Angela Lopodota(b); Annalisa Cutrignelli(b); Maria Principia Scavo(f); Marinella Striccoli(a); Angela Agostiano(a; d); M. Lucia Curri(a); Nunzio Denora(b)SUBJECTDrug deliverySUBJECTSorafenibSUBJECTMagnetic nanoparticles

ANNIC 2017, Roma, 18-20/10/2017

<http://www.cnr.it/prodotto/i/377884>

info:cnr-pdr/source/autori:Nicoletta Depalo(a), Fabio Vischio(a), Ilaria Arduino(b), Silvia Villa(c), Fabio Canepa(c), Elisabetta Fanizza(a,d), Byung Chul Lee(e), Valentino Laquintana(b), Angela Lopodota(b), Annalisa Cutrignelli(b), Maria Principia Scavo(f), Marinella Striccoli(a), Angela Agostiano(a,d), M. Lucia Curri(a), Nunzio Denora(b)/congresso_nome:ANNIC 2017/congresso_luogo:Roma/congresso_data:18-20/10/2017/anno:2017/pagina_da:/pagina_a:/intervallo_pagine:

8)-CONTROL APPARATUS FOR CONTROLLING THE DOSING OF A CHROMOPHORIC AGENT IN A CORNEAL TISSUE AND PROCESS FOR DOSING A CHROMOPHORIC AGENT IN A CORNEAL TISSUE

Marco Lombardo;

WO2017/130043, *Internazionale*

<http://www.cnr.it/prodotto/i/383560>

9)-Magnetic Nanoparticles tailored with Peptides/Amphiphilic Cyclodextrins assemblies: from Amyloid- detection to theranostic applications.

Mazzaglia A; Giuseppe Sortino; G.; Zagami; R.; Tosto; R.; Di Natale; G.; Tomasello; M. F.; Cervello; M.; Gouhier; G.; Villari; V.; Micali; N.; Pappalardo; G.SUBJECTMagnetic NanoparticlesSUBJECTAmyloid -BetaSUBJECTCyclodextrins

5Th Conference on Cyclodextrins, Lisbon, 3rd-5th October

<http://www.cnr.it/prodotto/i/385912>

info:cnr-pdr/source/autori:Mazzaglia A, Giuseppe Sortino, G., Zagami, R., Tosto, R., Di Natale, G., Tomasello, M. F., Cervello, M., Gouhier, G., Villari, V., Micali, N., Pappalardo, G./congresso_nome:5Th Conference on Cyclodextrins/congresso_luogo:Lisbon/congresso_data:3rd-5th October/anno:2017/pagina_da:/pagina_a:/intervallo_pagine: