

Ilaria Fratoddi: elenco completo delle pubblicazioni su riviste dotate di impact factor (11_2023)

- | N | Year | Bibliographic information |
|----|------|---|
| 1. | 1997 | <i>Synthesis and XPS Characterisation of Organometallic Pd Containing Polymers from Monosubstituted Acetylenes</i> ,
Russo, M. V.; Furlani, A.; Altamura, P.; Fratoddi, I. ; Polzonetti, G.
<i>Polymer</i> , 1997 , 38(14), 3677-3690.
doi:10.1016/S0032-3861(96)00925-1
[IF 1997 = 1.529 ; IF 2021 = 4.462; cit = 28] |
| 2. | 1998 | <i>X-ray photoelectron spectroscopy and scanning electron microscopy characterization of novel poly(monosubstituted) acetylenes containing doping species</i> ,
Russo, M. V.; Polzonetti, G.; Furlani, A.; Bearzotti, A.; Fratoddi, I. ; Altamura, P.
<i>J. Vac. Sci. Technol. A-Vac. Surf. Films</i> , 1998 , 16(1), 35-44.
doi:10.1116/1.581006
[IF1998 = 1.612; IF 2021 = 3.234; cit = 8] |
| 3. | 1998 | <i>Electrical and morphological characterization of new π-conjugated polymer films as gas sensors</i> ,
Altamura, P.; Bearzotti, A.; D'Amico, A.; Foglietti, V.; Fratoddi, I. ; Furlani, A.; Padeletti, G.; Russo, M. V.; Scavia, G.
<i>Mater. Sci. Eng. C-Biomimetic Mater. Sens. Syst.</i> , 1998 , C5(3,4),217-221.
doi: 10.1016/S0928-4931(97)00046-5
[IF 1998 = 0.615; IF 2021 = 8.457; cit = 14] |
| 4. | 2000 | <i>Investigation by Impedance Spectroscopy on the behaviour of Poly-(N,N dimethylpropargylamine) as Humidity Sensor</i> ,
Quartarone, E.; Mustarelli, P.; Magistris, A.; Russo, M. V.; Fratoddi, I. ; Furlani, A.
<i>Solid State Ion.</i> , 2000 , 136-137, 667-670.
doi: 10.1016/S0167-2738(00)00334-9
[IF 2000 = 1.529; IF 2021 = 3.699; cit = 54] |
| 5. | 2001 | <i>Higly Ethynylated Polymers: Synthesis and Applications for Humidity Sensors</i> ,
Bearzotti, A.; Fratoddi, I. ; Palummo, L.; Petrocco, S.; Furlani, A.; Lo Sterzo, C.; Russo, M. V.
<i>Sens. Actuator B-Chem.</i> , 2001 , B76(1-3), 316-321
doi:10.1016/S0925-4005(01)00607-4
[IF 2001 = 1.440; IF 2021 = 9.221; cit = 31] |
| 6. | 2002 | <i>Organometallic Polymers: Synthesis and Electro-Optical Properties</i> ,
Fratoddi, I.* ; Altamura, P.; Lo Sterzo, C.; Furlani, A.; Galassi, E.; D'Amico, A.; Russo, M.V.
<i>Polym. Adv. Technol.</i> 2002 , 13(3-4) 269-274.
doi: 10.1002/pat.185
[IF 2002 = 1.019; IF 2021 = 3.348; cit = 12] |
| 7. | 2002 | <i>Sensitivity of a platinum-polyyne-based sensor to low relative humidity and chemical vapors</i> ,
Caliendo, C.; Fratoddi, I. ; Russo, M. V.
<i>Appl. Phys. Lett.</i> 2002 , 80(25), 4849-4851
doi:10.1063/1.1489095
[IF 2002 = 3.849; IF 2021 = 3.971; cit = 63] |
| 8. | 2003 | <i>Study of chemical structure and conjugation length in organometallic Pt(II) oligomers and polymers containing 1,4-diethynylbenzene derivatives as bridging units</i> ,
Fratoddi, I.* ; Battocchio, C.; Furlani, A.; Mataloni, P.; Polzonetti, G.; Russo, M. V.
<i>J. Organomet. Chem.</i> 2003 , 674(1-2), 10-23.
doi:10.1016/S0022-328X(03)00156-6
[IF 2003 = 2.042; IF 2021 = 2.345; cit = 46] |
| 9. | 2003 | <i>Response of a Pt-Polyyne membrane in surface acoustic wave sensors: experimental and theoretical approach</i>
Caliendo, C.; Fratoddi, I. ; Russo, M. V.; Lo Sterzo, C. |

- J. Appl. Phys.* **2003**, 93(12), 10071-10077
doi:10.1063/1.1574176
[IF 2003 = 2.171; IF 2021 = 2.877; cit = 32]
10. **2003** *Diethynyl-Zn-Porphyrin based assemblies: optical and morphological studies of nanostructured thin films*
Fratoddi, I.; Battocchio, C.; D'Amato, R.; Di Egidio, G. P.; Ugo, L.; Polzonetti, G.; Russo, M. V.
Mater. Sci. Eng. C. **2003**, C23(6-8), 867-871.
doi:10.1016/j.msec.2003.09.152
[IF 2003 = 1.383; IF 2009 = 1.842; cit = 10]
 11. **2004** *Structure of a monolayer of Pd-Diethynylbiphenyl deposited on chromium studied by Total Reflection Exafs*
D'Acapito, F.; **Fratoddi, I.**; D'Amato, R.; Russo, M. V.; Contini, G.; Davoli, I.; Mobilio, S.; Polzonetti, G.
Sens. Actuator B-Chem., **2004**, B100 (1-2), 131-134.
doi:10.1016/j.snb.2003.12.032
[IF 2004 = 2.083; IF 2021 = 9.221; cit = 8]
 12. **2004** *Organometallic Platinum(II) and Palladium(II) polymers containing 2,6-diethynyl-4-nitroaniline bridging spacer and related dinuclear model complexes*
D'Amato, R.; **Fratoddi, I.***; Cappotto, A.; Altamura, P.; Delfini, M.; Bianchetti, C.; Bolasco, A.; Polzonetti, G.; Russo, M. V.
Organometallics **2004**, 23(12), 2860-2869
doi: 10.1021/om049972w
[IF 2004 = 3.196; IF 2021 = 3.837; cit = 27]
 13. **2004** *Electrical and Morphological Characterization of Poly(Monosubstituted)Acetylene Based Membranes: Application as Humidity and Organic Vapours Sensors*
Fratoddi, I.*; Altamura, P.; Bearzotti, A.; Furlani, A.; Russo, M. V.
Thin Solid Films, **2004**, 458(1-2), 292-298
doi:10.1016/j.tsf.2003.12.065
[IF 2004 = 1.647; IF 2021 = 2.358; cit = 31]
 14. **2004** *Resistive type sensor for Humidity and short alcohols detection*
Palummo, L.; **Fratoddi, I.**; Russo, M.V.; Bearzotti, A.
Sensor Letters 2004, 2(3, 4), 205-210.
doi: 10.1166/sl.2004.058
[IF 2004 = 1.587; IF 2021 = 0.558; cit = 7]
 15. **2004** *NEXAFS study of a Pt-containing rod-like organometallic polymer (Pt-DEBP). Molecular orientation onto hcp, Au/Si(111), Cr/Si(111) and Si(111) surfaces*
Battocchio, C.; **Fratoddi, I.**; Russo, M. V.; Polzonetti, G.
Chem. Phys. Lett. **2004**, 400(4-6), 290-295.
doi:10.1016/j.cplett.2004.10.126
[IF 2004 = 2.438; IF 2021 = 2.179; cit = 23]
 16. **2005** *Preparation of Nanostructured Organometallic Polymer/Palladium Hybrids by Metal Vapor Synthesis: Structure and Morphology*
Belotti, F.; **Fratoddi, I.**; La Groia, A.; Martra, G.; Mustarelli, P.; Panziera, N.; Pertici, P.; Russo, M. V.
Nanotechnology **2005**, 16(11), 2575-2581
doi: 10.1088/0957-4484/16/11/018
[IF 2005 = 2.993; IF 2021 = 3.953; cit = 10]
 17. **2006** *Local structure parameters through the fitting of XANES spectra using a multidimensional interpolation: application to the Pd K-edge of Pd-diethynylbiphenyl polymer*
Smolentsev, G.; Soldatov, A. V.; D'Acapito, F.; Polzonetti, G.; **Fratoddi, I.**
J. Phys.-Condes. Matter **2006**, 18(3), 759-766.
doi: 10.1088/0953-8984/18/3/001

[IF 2006 = 2.038; IF 2021 = 2.745; cit = 11]

18. 2006 *Synthesis and characterization of new difunctional alkynylated (η^6 -arene)(η^4 -cycloocta-1,5-diene)Ru(0) complexes as molecular models for organometallic polymers*
Panziera, N.; Pertici, P.; **Fratoddi, I.**; La Groia, A.; Russo, M. V.
J. Organomet. Chem. **2006**, 691(12), 2648-2656.
doi: 10.1016/j.jorganchem.2006.01.058
[IF 2006 = 2.332; IF 2021 = 2.345; cit = 2]
19. 2006 *XAS Study of a Pt-Containing Rod-like Organometallic Polymer*
Battocchio, C.; D'Acapito, F.; Smolentsev, G.; Soldatov, A. V.; **Fratoddi, I.**; Contini, G.; Davoli, I.; Polzonetti, G.; Mobilio, S.
Chem. Phys. **2006**, 325(2-3), 422-428
doi:10.1016/j.chemphys.2006.01.014
[IF 2006 = 1.985; IF 2021 = 2.552; cit = 9]
20. 2006 *Platinum (II) dialkynyl bridged binuclear complex and related multinuclear oligomer: comparison of EXAFS and X-ray Crystal Structure Studies*
Battocchio, C.; D'Acapito, F.; **Fratoddi, I.**; La Groia, A.; Polzonetti, G.; Roviello, G.; Russo, M.V.
Chem. Phys. **2006**, 328(1-3), 269-274.
doi: 10.1016/j.chemphys.2006.07.011
[IF 2006 = 1.985; IF 2021 = 2.552; cit = 17]
21. 2006 *Intermolecular stacking of a tetranuclear cyclic Pt(II) complex: NMR characterization and X-ray crystal structure of cis-trans-cis-trans tetra[μ -2,6-diethynyl-4-nitroaniline-bis(tri(*p*-tolyl)phosphine)platinum(II)]*
Fratoddi, I.*; Delfini, M.; Sciubba, F.; Hursthouse, M. B.; Ogilvie, H. R.; Russo, M. V.
J. Organomet. Chem. **2006**, 691(26), 5920-5926
doi:10.1016/j.jorganchem.2006.09.059
[IF 2006 = 2.332; IF 2021 = 2.345; cit = 6]
22. 2007 *Nanostructured organometallic polymer and palladium/polymer hybrid: surface investigation and sensitivity to relative humidity and hydrogen in Surface Acoustic Wave sensors*
Caliendo, C.; Contini, G.; **Fratoddi, I.***; Irrera, S.; Pertici, P.; Scavia, G.; Russo, M.V.
Nanotechnology **2007**, 18 (12) 125504(1-7)
doi: 10.1088/0957-4484/18/12/125504
[IF 2007 = 3.331; IF 2021 = 3.953; cit = 26]
23. 2007 *Nanostructured polymetallaynes of controlled length: synthesis and characterization of oligomers and polymers from 1,1'-bis-(ethynyl)4,4'-biphenyl bridging Pt(II) or Pd(II) centres*
Fratoddi, I.*; Battocchio, C.; Groia, A.L.; Russo, M.V.
J. Polym. Sci. Pol. Chem. **2007**, 45(15), 3311-3329
doi: 10.1002/pola.22081
[IF 2007 = 3.529; IF 2021 = 2.869; cit = 33]
24. 2007 *Dinuclear Pt and Pd Complexes with Metalloporphyrin Bridges: a NEXAFS Study of the Electronic Structure and Self Assembling Properties*
Battocchio, C.; **Fratoddi, I.**; Iucci, G.; Russo, M. V.; Goldoni, A.; Parent, Ph.; Polzonetti, G.
Mater. Sci. Eng. C-Biomimetic Supramol. Syst. **2007**, 27(5-8) 1338-1342
doi:10.1016/j.msec.2006.06.014
[IF 2007 = 1.486; IF 2009 = 1.842; cit = 9]
25. 2007 *Gold nanoclusters - organometallic polymer nanocomposites: synthesis and characterization*
Vitale, F.; Mirengi, L.; Piscopiello, E.; Pellegrini, G.; Trave, E.; Mattei, G.; **Fratoddi, I.**; Russo, M. V.; Tapfer, L.; Mazzoldi, P.
Mater. Sci. Eng. C-Biomimetic Supramol. Syst **2007**, 27(5-8), 1300-1304
doi:10.1016/j.msec.2006.06.041

[IF 2007 = 1.486; IF 2009 = 1.842; cit = 35]

26. 2007 *Nanostructured Gold/Conjugated Polymer Hybrids by Metal Vapor Synthesis: Preparation, Chemical Structure and Morphology*
Fratoddi, I.*; Panziera, N.; Pertici, P.; Martra, G.; Bertinetti, L.; Russo, M. V.
Mater. Sci. Eng. C-Biomimetic Supramol. Syst. **2007**, 27(5-8) 1305–1308
doi:10.1016/j.msec.2006.09.039
[IF 2007 = 1.486; IF 2009 = 1.842; cit = 5]
27. 2007 *Binuclear Transition-Metal complexes on Gold: Molecular Orientation by Angular Dependent NEXAFS Spectroscopy*
Battocchio, C.; **Fratoddi, I.**; Russo, M. V.; Carravetta, V.; Monti, S.; Iucci, G.; Borgatti, F.; Polzonetti, G.
Surf. Sci. **2007**, 601(18) 3943–3947
doi:10.1016/j.susc.2007.04.154
[IF 2007 = 1.855; IF 2021 = 2.070; cit = 9]
28. 2007 *Lipolytic enzymes with improved activity and selectivity upon adsorption on polymeric nanoparticles*
Palocci, C.; Chronopoulou, L.; Venditti, I.; Cernia, E.; Diociaiuti, M.; **Fratoddi, I.**; Russo, M. V.
Biomacromolecules, **2007**, 8(10), 3047-3053.
doi: 10.1021/bm070374l
[IF 2007 = 4.169; IF 2021 = 6.979; cit = 58]
29. 2008 *Synthesis and characterization of gold nanoparticles stabilized by Palladium(II) phosphine thiol*
Vitale, F.; Vitaliano, R.; Battocchio, C.; **Fratoddi, I.***; Piscopiello, E.; Tapfer, L.; Russo, M. V.
J. Organomet. Chem. **2008**, 693(6), 1043-1048.
doi:10.1016/j.jorganchem.2007.12.024
[IF 2008 = 1.866; IF 2021 = 2.345; cit = 33]
30. 2008 *One Step Synthesis of Low Molecular Weight Poly(p-phenylene ethynylene vinylene)s via Polyaddition of Aromatic Diynes, by Catalysis of the [Ru(p-cymene)Cl₂]₂/AcOH System*
Pasquini, C.; **Fratoddi, I.**; Capitani, D.; Mannina, L.; Bassetti, M.
J. Org. Chem. **2008**, 73(10), 3892-3899.
doi: 10.1021/jo800471p
[IF 2008 = 3.952; IF 2021 = 4.198; cit = 14]
31. 2008 *Self-assembly of nanostructured polymetallaynes*
Fratoddi, I.*; Gohlke, C.; Cametti, C.; Diociaiuti, M.; Russo, M. V.
Polymer **2008**, 49(15), 3211-3216
doi:10.1016/j.polymer.2008.05.022
[IF 2008 = 3.331; IF 2021 = 4.432.; cit = 12]
32. 2008 *H₂S gas interaction with Pt(II) containing polymetallaynes of selected chain length: an Xps and Exafs study*
Battocchio, C.; **Fratoddi, I.**; Russo, M.V.; Polzonetti, G.
J. Phys. Chem. A **2008**, 112(32); 7365-7373
DOI: 10.1021/jp803119j
[IF 2008 = 2.871; IF 2021 = 2.944; cit = 11]
33. 2008 *Synthesis and microstructural investigations of organometallic Pd(II) thiol-gold nanoparticles hybrids*
Vitale, F.; Vitaliano, R.; Battocchio, C.; **Fratoddi, I.***; Giannini, C.; Piscopiello, E.; Guagliardi, A.; Cervellino, A.; Polzonetti, G.; Russo, M. V.; Tapfer, L.
Nanoscale Res. Lett. **2008**, 3(11), 461-467
doi: 10.1007/s11671-008-9181-x
[IF 2008 = 1.731; IF 2021 = 5.418; cit = 31]
34. 2008 *Alcohol vapor sensory properties of nanostructured conjugated polymers*
Bearzotti, A.; Macagnano, A.; Pantalei, S.; Zampetti, E.; Venditti, I.; **Fratoddi, I.**; Russo, M. V.

- J. Phys.: Condens. Matter* **2008**, 20(47), 474207(1-6).
doi: 10.1088/0953-8984/20/47/474207
[IF 2008 = 1.900; IF 2021 = 2.745; cit = 37]
35. **2008** *Nanobeads-based Assays. The case of gluten detection*
Venditti, I.; **Fratoddi, I.**; Russo, M. V.; Bellucci, S.; Crescenzo, R.; Iozzino, L.; Staiano, M.; Aurilia, V.; Varriale, A.; Rossi, M.; D'Auria, S.
J. Phys.: Condens. Matter **2008**, 20(47), 474202(1-4)
doi: 10.1088/0953-8984/20/47/474202
[IF 2008 = 1.900; IF 2021 = 2.745; cit = 8]
36. **2009** *Osmosis Based Method Drives the Self-Assembly of Polymeric Chains into Micro- and Nanostructures*
Chronopoulou, L.; **Fratoddi, I.**; Palocci, C.; Venditti, I.; Russo, M. V.
Langmuir **2009**, 25(19), 11940-11946
doi: 10.1021/la9016382
[IF 2009 = 3.898; IF 2021 = 4.331; cit = 78]
37. **2009** *Homo- and Copolymerization of Aromatic Diynes by Ruthenium/Acid-Promoted (RAP) Catalysis*
Pasquini, C.; **Fratoddi, I.**; Bassetti, M.
Eur. J. Org. Chem. **2009**, 30, 5224-5231
doi: 10.1002/ejoc.200900748
[IF 2009 = 3.096; IF 2021 = 3.261; cit = 13]
38. **2009** *Self-Assembled Monolayers Based on Pd-Containing Organometallic Thiols: Preparation and Structural Characterization*
Vitaliano, R.; **Fratoddi, I.**; Venditti, I.; Roviello, G.; Battocchio, C.; Polzonetti, G.; Russo, M. V.
J. Phys. Chem. A **2009**, 113 (52), 14730-14740
doi: 10.1021/jp904865k
[IF 2009 = 2.899; IF 2021 = 2.944; cit = 33]
39. **2010** *Organometallic Oligomer Resolved by Radial Distribution Function of X-ray Diffraction Analysis*
Matassa, R.; Carbone, M.; **Fratoddi, I.**; Caminiti, R.
J. Phys. Chem. B **2010**, 114(7), 2359-2364
doi: 10.1021/jp9099896
[IF 2010 = 3.603; IF 2021 = 3.466; cit = 4]
40. **2010** *Self-assembled copolymeric nanoparticles as chemically interactive materials for humidity sensors*
Venditti, I.; **Fratoddi, I.**; Bearzotti, A.
Nanotechnology **2010**, 21 (35), 355502(1-8)
doi: 10.1088/0957-4484/21/35/355502
[IF 2010 = 3.652; IF 2021 = 3.953; cit = 22]
41. **2010** *Self-assembled nanoparticles of functional copolymers for photonic applications*
Venditti, I.; **Fratoddi, I.**; Palazzesi, C.; Proposito, P.; Casalboni, M.; Cametti, C.; Battocchio, C.; Polzonetti, G.; Russo, M. V.
J. Colloid Interface Sci., **2010**, 348(2), 424-430
doi: 10.1016/j.jcis.2010.04.061
[IF 2010 = 3.068; IF 2021 = 9.965; cit = 41]
42. **2010** *Quantum-chemical modeling of interaction between gold nanoclusters and thiols*
Yarzhemsky, V. G.; Norov, Yu. V.; Murashov, S. V.; Battocchio, C.; **Fratoddi, I.**; Venditti, I.; Polzonetti, G.
Inorg. Mater. **2010**, 46 (9), 924-930.
doi: 10.1134/S0020168510090025
[IF 2010 = 0.416; IF 2021 = 0.907; cit = 11]

43. 2010 *Binuclear Pd(II) complexes with alkynyl ligands and functionalised tail-groups: Molecular and electronic structure studied by XPS and EXAFS*
Battocchio, C.; **Fratoddi, I.**; Vitaliano, R.; Russo, M.V.; Polzonetti, G.
Solid State Sci., **2010**, 12(11), 1881-1885
doi:10.1016/j.solidstatesciences.2010.02.021
[IF 2010 = 1.828; IF 2021 = 3.752; cit = 9]
44. 2011 *Mono and bifunctional arenethiols as surfactants for gold nanoparticles: synthesis and characterization*
Vitale, F.; **Fratoddi, I.**; Battocchio, C.; Piscopiello, E.; Tapfer, L.; Russo, M.V.; Polzonetti, G.; Giannini, C.
Nanoscale Res. Lett. **2011**, 6, 103 (9)
doi: 10.1186/1556-276X-6-98
[IF 2011 = 2.726; IF 2021 = 5.418; cit = 55]
45. 2011 *Core shell hybrids based on noble metal nanoparticles and conjugated polymers: synthesis and characterization*
Fratoddi, I.; Venditti, I.; Battocchio, C.; Polzonetti, G.; Cametti, C.; Russo, M.V.
Nanoscale Res. Lett. **2011**, 6, 98(8)
doi: 10.1186/1556-276X-6-103
[IF 2011 = 2.726; IF 2021 = 5.418; cit = 46]
46. 2011 *A Porphyrin Bridged Pd Dimer Complex Stabilizes Gold Nanoparticles*
Fratoddi, I.*; Battocchio, C.; Polzonetti, G.; Sciubba, F.; Delfini, M.; Russo, M.V.
Eur. J. Inorg. Chem. **2011**, 31, 4906-4913
doi: 10.1002/ejic.201100339
[IF 2011 = 3.049; IF 2021 = 2.551; cit = 10]
47. 2011 *EXAFS in total reflection (reflEXAFS) for the study of organometallic Pd(II) thiol complexes based self-assembled monolayers on gold*
Battocchio, C.; **Fratoddi, I.**; Venditti, I.; Yarzhemsky, V. G.; Norov, Yu. V.; Russo, M. V.; Polzonetti, G.
Chem. Phys. **2011**, 379 (1-3), 92-98
doi: 10.1016/j.chemphys.2010.11.010
[IF 2011 = 1.896; IF 2021 = 2.552; cit = 15]
48. 2011 *Dielectric Relaxations of Ionic Thiol-Coated Noble Metal Nanoparticles in Aqueous Solutions: Electrical Characterization of the Interface*
Cametti, C.; **Fratoddi, I.**; Venditti, I.; Russo, M.V.
Langmuir, **2011**, 27 (11), 7084-7090
doi: 10.1021/la2007827
[IF 2011 = 4.186; IF 2021 = 4.331; cit = 40]
49. 2011 *Optical Behavior of Conjugated Pt-Containing Polymetallaynes Exposed to Gamma-Ray Radiation Doses*
Batagin-Neto, A.; Bronze-Uhle, E. S.; Fernandes, D. M.; **Fratoddi, I.***; Venditti, I.; Decker, F.; Bodo, E.; Russo, M.V.; Graeff, C. F. O.
J. Phys. Chem. B, **2011**, 115 (25), 8047-8053
doi: 10.1021/jp200831z
[IF 2011 = 3.696; IF 2021 = 3.466; cit = 14]
50. 2011 *Soluble polymers of monosubstituted acetylenes with quaternary ammonium pendant groups: structure and morphology*
Venditti, I.; **Fratoddi, I.***; Battocchio, C.; Polzonetti, G.; Cametti, C.; Russo, M.V.
Polym. Int. **2011**, 60 (8), 1222-1229
doi: 10.1002/pi.3066
[IF 2011 = 1.902; IF 2021 = 3.213; cit = 16]
51. 2011 *Gold Nanoparticles Dyads Stabilized with Binuclear Pt(II) Dithiol Bridges*
Fratoddi, I.; Venditti, I.; Battocchio, C.; Polzonetti, G.; Bondino, F.; Malvestuto, M.; Piscopiello, E.; Tapfer, L.; Russo, M.V.

- J. Phys. Chem. C*, **2011**, 115 (31), 15198–15204
doi: 10.1021/jp202717t
[IF 2011 = 4.805; IF 2021 = 4.177; cit = 37]
52. **2011** *Nanostructured functional co-polymers bioconjugate integrin inhibitors*
Laganà, A.; Venditti, I.; **Fratoddi, I.***; Capriotti, A. L.; Caruso, G.; Battocchio, C.; Polzonetti, G.; Acconcia, F.; Marino, M.; Russo, M. V.
J. Colloid Interface Sci. **2011**, 361, 465–471
doi: 10.1016/j.jcis.2011.05.041
[IF 2011 = 3.070; IF 2021 = 9.965; cit = 18]
53. **2012** *Self-Assembling Monolayers of dialkynyl bridged Pd(II) thiols obtained by thermally induced multilayer desorption: thermal and chemical stability investigated by SR-XPS*
Battocchio, C.; **Fratoddi, I.**; Bondino, F.; Malvestuto, M.; Russo, M.V.; Polzonetti, G.
Chem. Phys. Lett. **2012**, 527, 57-62
doi: 10.1016/j.cplett.2012.01.012
[IF 2012 = 2.337; IF 2021 = 2.719; cit = 3]
54. **2012** *Functional polymeric nanoparticles for dexamethasone loading and release*
Fratoddi, I.; Venditti, I.; Cametti, C.; Palocci, C.; Chronopoulou, L.; Marino, M.; Acconcia, F.; Russo, M.V.
Colloid Surf. B-Biointerfaces, **2012**, 93, 59– 66
doi: 10.1016/j.colsurfb.2011.12.008
[IF 2012 = 3.554; IF 2021 = 5.999; cit = 41]
55. **2012** *Two-Dimensional Networks of Ag Nanoparticles Bridged by Organometallic Ligand*
Matassa, R.; **Fratoddi, I.***; Rossi, M.; Battocchio, C.; Caminiti, R.; Russo, M.V.
J. Phys. Chem. C, **2012**, 116, 15795–15800
doi: 10.1021/jp304407p
[IF 2012 = 4.814; IF 2021 = 4.177; cit = 28]
56. **2012** *Structural Changes of Conjugated Pt-Containing Polymetallaynes Exposed to Gamma Ray Radiation Doses*
Fratoddi, I.; Bronze-Uhle, E.S.; Batagin-Neto, A.; Fernandes, D.M.; Bodo, E.; Battocchio, C.; Venditti, I.; Decker, F.; Russo, M.V.; Polzonetti, G.; Graeff, C.F.O.
J. Phys. Chem. A, **2012**, 116, 8768–8774
doi: 10.1021/jp3060747
[IF 2012 = 2.771; IF 2021 = 2.944; cit = 18]
57. **2012** *Silver nanoparticles stabilized with thiols: a close look to the local chemistry and atomic structure.*
Battocchio, C.; Meneghini, C.; **Fratoddi, I.**; Venditti, I.; Russo, M.V.; Aquilanti, G.; Maurizio, C.; Bondino, F.; Matassa, R.; Rossi, M.; Mobilio, S.; Polzonetti, G.
J. Phys. Chem. C, **2012**, 116 (36), 19571–19578
doi: 10.1021/jp305748a
[IF 2012 = 4.814; IF 2021 = 4.177; cit = 133]
58. **2012** *Synthesis of Polyarylacetylenes by gamma-Ray Induced Polymerization of Terminal Alkynes. Nanostructures of ortho-Substituted Derivatives*
Bassetti, M.; **Fratoddi, I.***; Lilla, L.; Pasquini, C.; Russo, M.V.; Ursini, O.
J. Polym. Sci. Pol. Chem. **2012**, 50, 5097–5106
doi: 10.1002/pola.26329
[IF 2012 = 3.919; IF 2021 = 2.869; cit = 12]
59. **2013** *Organometallic Pt(II) Containing Polymer as Silver Protection against Sulfide Tarnishing*
Fratoddi, I.; Marghella, G.; Venditti, I.; Ferro, D.; Russo, M.V.
J. Appl. Polym. Sci. **2013**, 128, 304-309
doi: 10.1002/APP.38189
[IF 2013 = 1.640; IF 2021 = 3.057; cit = 5]

60. 2013 *A Nanostructured composite based on polyaniline and gold nanoparticles: synthesis and gas sensing properties.*
Venditti, I.; **Fratoddi, I.***; Russo, M.V.; Bearzotti, A.
Nanotechnology **2013**, 24, 155503
doi: 10.1088/0957-4484/24/15/155503
[IF 2013 = 3.672; IF 2021 = 3.953; cit= 52]
61. 2013 *Poly [1,1'-bis(ethynyl)-4,4'-biphenyl(bis-tributylphosphine)Pt(II)] solutions used as low dose ionizing radiation dosimeter*
Bronze-Uhle, E. S.; Batagin-Neto, A.; Fernandes, D. M.; **Fratoddi, I.**; Russo, M. V., O. Graeff, C. F.
Appl. Phys. Lett. **2013**, 102, 241917 4
doi: 10.1063/1.4812186
[IF 2013 = 3.515; IF 2021 = 3.971; cit = 5]
62. 2014 *From nanospheres to microribbons: self-assembled Eosin Y doped PMMA nanoparticles as photonic crystals*
De Angelis, R.; Venditti, I.; **Fratoddi, I.**; De Matteis, F.; Proposito, P.; Cacciotti, I.; D'Amico, L.; Nanni, F.; Yadav, A.; Casalboni, M.; Russo, M. V.
J. Colloid Interface Sci., **2014**, 414, 24-32
doi: 10.1016/j.jcis.2013.09.045
[IF 2014 = 3.368; IF 2021 = 9.965; cit = 40]
63. 2014 *Electrodeposited ZnO with squaraine sensitizers as photoactive anode of DSCs*
Venditti, I.; Barbero, N.; Russo, M.V.; Di Carlo, A.; Decker, F.; **Fratoddi, I.***; Barolo, C.; Dini, D.
Mater. Res. Express **2014**, 1, 015040
doi:10.1088/2053-1591/1/1/015040
[IF 2014 = 0.968; IF 2021 = 2.025; cit = 41]
64. 2014 *Direct interaction of hydrophilic gold nanoparticles with dexamethasone drug: Loading and release study*
Venditti, I.; Fontana, L.; **Fratoddi, I.***; Battocchio, C.; Cametti, C. Sennato, S.; Mura, F.; Sciubba, F.; Delfini, M.; Russo, M.V.
J. Colloid Interface Sci. **2014**, 418, 52-60
doi: 10.1016/j.jcis.2013.11.063
[IF 2014 = 3.368; IF 2021 = 9.965; cit = 54]
65. 2014 *Network assembly of gold nanoparticles linked through fluorenyl dithiol bridge*
Quintiliani, M.; Bassetti, M.; Pasquini, C.; Battocchio, C.; Rossi, M.; Mura, F.; Matassa, R.; Fontana, L.;
U** Russo, M.V.; **Fratoddi, I.
J. Mater. Chem. C, **2014**, 2, 2517 – 2527
doi: 10.1039/c3tc32567a
[IF 2014 = 4.696; IF 2021 = 8.067; cit 41]
66. 2014 *Gold nanoparticles stabilized with aromatic thiols: interaction at the molecule-metal interface and structure of the molecular shell investigated by SR-XPS and NEXAFS*
Battocchio, C.; Porcaro, F.; Mukherjee, S.; Magnano, E.; Nappini, S.; **Fratoddi, I.**; Quintiliani, M.; Russo, M.V.; Polzonetti, G.
J. Phys. Chem. C, **2014**, 118, 8159 - 8168
doi: 10.1021/jp4126057
[IF 2014 = 4.772; IF 2021 = 4.177; cit 57]
67. 2014 *Silver nanoparticles linked by Pt-containing organometallic dithiol bridge: study on local structure and interface by XAFS and SR-XPS*
Battocchio, C.; **Fratoddi, I.**; Fontana, L.; Bodo, E.; Porcaro, F.; Meneghini, C.; Pis, I.; Nappini S.; Mobilio, S.; Russo, M.V.; Polzonetti, G.
Phys. Chem. Chem. Phys. **2014**, 16, 11719-11728.

- doi: 10.1039/c4cp01264j
[IF 2014 = 4.493; IF 2021 = 3.945; cit = 30]
68. 2014 *Gold nanoparticles and gold nanoparticle-conjugates as drug delivery vehicles. Progress and challenges.*
Fratoddi, I.*; Venditti, I.; Cametti, C.; Russo, M.V.
J. Mat. Chem. B, **2014**, 2, 4204-4220.
doi: 10.1039/c4tb00383g
[IF 2014 = 4.726; IF 2021 = 7.571; cit = 99]
69. 2014 *Platinum nanoparticles on electrospun titania nanofibers as hydrogen sensing material working at room temperature*
Fratoddi, I.; Macagnano, A.; Battocchio, C.; Zampetti, E.; Venditti, I.; Russo, M.V.; Bearzotti, A.
Nanoscale, **2014**, 6, 9177-9184.
doi: 10.1039/c4nr01400f
[IF 2014 = 7.394; IF 2021 = 8.307; cit = 42]
70. 2015 *Local structure of semicrystalline P3HT films probed by nanofocused coherent x-rays*
Kurta, R.P.; Grodd, L.; Mikayelyan, E.; Gorobtsov, O.Y.; Zaluzhnyy, I.A.; **Fratoddi, I.**; Venditti, I.; Russo, M.V.; Sprung, M.; Vartanyants, I.A.; Grigorian, S.
Phys. Chem. Chem. Phys, **2015**, 17, 7404-7410
doi: 10.1039/c5cp00426h
[IF 2015 = 4.449; IF 2021 = 3.945; cit = 24]
71. 2015 *How toxic are gold nanoparticles? The state-of-the-art*
Fratoddi, I.*; Venditti, I.; Cametti, C.; Russo, M.V.
Nano Research, **2015**, 8, 1771-1799
doi: 10.1007/s12274-014-0696
[IF 2015 = 8.893; IF 2021 = 10.269; cit = 231]
72. 2015 *Chemiresistive Polyaniline-based Gas Sensors. A Mini Review*
Fratoddi, I.*; Venditti, I.; Cametti, C.; Russo, M.V.
Sens. Actuator B-Chem. **2015**, 220, 534-548
doi: 10.1016/j.snb.2015.05.107
[IF 2015 = 4.758; IF 2021 = 9.221; cit = 327]
73. 2015 *The puzzle of toxicity of gold nanoparticles. The case-study of HeLa cells*
Fratoddi, I.*; Venditti, I.; Cametti, C.; Russo, M.V.
Toxicol. Res. **2015**, 4, 796 – 800
doi: 10.1039/c4tx00168k
[IF 2015 = 2.161; IF 2021 = 2.680; cit = 50]
74. 2015 *Candida rugosa lipase immobilization on hydrophilic charged gold nanoparticles as promising biocatalysts: activity and stability investigations*
Venditti, I.; Palocci, C.; Chronopoulou, L.; **Fratoddi, I.***; Fontana, L.; Diociaiuti, M.; Russo, M.V.
Colloid Surf. B-Biointerfaces, **2015**, 131, 96-101
doi:10.1016/j.colsurfb.2015.04.046
[IF 2015 = 3.902; IF 2021 = 5.999; cit = 61]
75. 2015 *Bioconjugation of Gold-Polymer Core-Shell Nanoparticles with Bovine Serum Amino Oxidase for Biomedical Applications*
Venditti, I.; Hassanein, T. F.; **Fratoddi, I.***; Fontana, F.; Battocchio, C.; Rinaldi, F.; Carafa, I.; Marianecchi, C.; Diociaiuti, M.; Agostinelli, E.; Cametti, C.; Russo, M. V.
Colloid Surf. B-Biointerfaces **2015**, 134, 314-321
doi 10.1016/j.colsurfb.2015.06.052
[IF 2015 = 3.902; IF 2021 = 5.999; cit = 51]

76. 2015 *Photoelectrochemical characterization of squaraine-sensitized nickel oxide cathodes deposited via screen-printing for p-type dye-sensitized solar cells*
Naponiello, G.; Venditti, I.; Zardetto, V.; Saccone, V.; Di Carlo, A.; **Fratoddi, I.**; Barolo, C.; Dini, D.
Appl. Surf. Sci. **2015**, 356, 911-920
doi: 10.1016/j.apsusc.2015.08.171
[IF 2015 = 3.150; IF 2021 = 7.392; cit = 39]
77. 2016 *Functionalized Platinum Nanoparticles with surface charge triggered by pH: Synthesis, characterization and stability studies*
Testa, G.; Fontana, L.; Venditti, I.; **Fratoddi, I.***
Beilstein J. Nanotechnol. **2016**, 7, 1822-1828
doi: 10.3762/bjnano.7.175
[IF 2016 = 3.127; IF 2021 = 3.272; cit = 10]
78. 2016 *Synthesis and Structural Characterization of Silver Nanoparticles Stabilized with 3-Mercapto-1-Propansulfonate and 1-Thioglucoose Mixed Thiols for Antibacterial Applications*
Porcaro, F.; Carlini, L.; Ugolini, A.; Visaggio, D.; Visca, P.; **Fratoddi, I.**; Venditti, I.; Meneghini, C.; Simonelli, L. Marini, C.; Olszewski, W.; Ramanan, N.; Luisetto, I.; Battocchio, C.
Materials **2016**, 9, 1028 (15 pp);
doi:10.3390/ma9121028
[IF 2016 = 2.654; IF 2021 = 3.748; cit = 56]
79. 2016 *Hydrophilic silver nanoparticles with tunable optical properties: application for the detection of heavy metals in water*
Proposito, P.; Mochi, F.; Ciotta, E.; Casalboni, M.; Venditti, I.; Fontana, L.; Testa G.; **Fratoddi, I.**
Beilstein J. Nanotechnol. **2016**, 1654-1661
doi:10.3762/bjnano.7.157
[IF 2016 = 3.127; IF 2021 = 3.272; cit = 59]
80. 2016 *Negatively charged gold nanoparticles as dexamethasone carrier: stability in biological media and bioactivity assessment in vitro*
Rossi, A.; Donati, S.; Fontana, L.; Porcaro, F.; Battocchio, C.; Proietti, E.; Venditti, I.; Bracci, L.; **Fratoddi, I.**
RSC Adv. **2016**, 6, 99016-99022
doi: 10.1039/C6RA19561J
[IF 2016 = 3.108; IF 2021 = 4.036; cit = 49]
81. 2016 *Role of nanostructured polymers on the improvement of electrical response-based relative humidity sensors*
Fratoddi, I.*; Bearzotti, A.; Venditti, I.; Cametti, C.; Russo, M.V.
Sens. Actuator B-Chem., **2016**, 225, 96-108
doi. 10.1016/j.snb.2015.11.001
[IF 2016 = 5.401; IF 2021 = 9.221; cit = 75]
82. 2016 *Structural studies on drop-cast film based on functionalized gold nanoparticles network: the effect of heating treatment.*
Fontana, L.; **Fratoddi, I.***; Venditti, I.; Ksenzov, D.; Russo, M.V.; Grigorian, S.
Applied Surface Science 2016, 369, 115-119
doi: 10.1016/j.apsusc.2016.02.029
[IF 2016 = 3.387; IF 2021 = 7.392; cit = 16]
83. 2016 *Functionalized gold nanoparticles for topical delivery of methotrexate for the 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.; S. A. Ibraim; Russo, M.V.; **Fratoddi, I.***;
Colloid Surf. B-Biointerf., **2016**, 141, 141-147
doi: 10.1016/j.colsurfb.2016.01.021
[IF 2016 = 3.887; IF 2021 = 5.999; cit = 99]

84. 2016 *Synthesis of Functionalized Gold Nanoparticles Capped with 1-Thiolglucose and "in Vitro" Bioresponse*
 Porcaro, F.; Battocchio, C.; Antoccia, A.; **Fratoddi, I.***; Venditti, I.; Fracassi, A.; Moreno, S.; Luisetto, I.; Russo, M.V.; Polzonetti, G.
Colloid Surf. B-Biointerfaces, **2016**, 142, 408-416
 doi: 10.1016/j.colsurfb.2016.03.016
 [IF 2016 = 3.887; IF 2021 = 5.999; cit = 32]
85. 2016 *Electron Microscopy Reveals Soluble Hybrid Network of Individual Nanocrystal Self-Anchored by Bifunctional Thiol Fluorescent Bridges*
 Matassa, R.; Familiari, G.; Battaglione, E.; Sibilia, C.; Lehau, G.; Belardini, A.; Venditti, I.; Fontana, L.; **Fratoddi, I.**
Nanoscale **2016**, 8, 18161-18169
 doi: 10.1039/c6nr06260a
 [IF 2016 = 7.367; IF 2021 = 8.307; cit = 25]
86. 2017 *Nanocomposite Based on Functionalized Gold Nanoparticles and Sulfonated Poly(ether ether ketone) Membranes: Synthesis and Characterization*
 Venditti, I.; Fontana, L.; Scaramuzzo, A.F.; Russo, M.V.; Battocchio, C.; Carlini, L.; Gonon, L.; Mareau, V.H.; **Fratoddi, I.***
Materials **2017**, 10, 258;
 doi:10.3390/ma1003025
 [IF 2017 = 2.467; IF 2021 = 3.748; cit = 9]
87. 2017 *Hydrophilic Metal Nanoparticles Functionalized by 2-Diethylaminoethanethiol: A Close Look at the Metal-Ligand Interaction and Interface Chemical Structure*
 Venditti, I.; Testa, G.; Sciubba, F.; Carlini, L.; Porcaro, F.; Meneghini, C.; Mobilio, S.; Battocchio, C.; **Fratoddi, I.***,
J. Phys. Chem. C, **2017**, 121, 8002-8013.
 doi: 10.1021/acs.jpcc.7b01424
 [IF 2017 = 4.484; IF 2021 = 4.177; cit = 41]
88. 2017 *Electronic Properties of a Functionalized Noble Metal Nanoparticles Covalent Network*
Fratoddi, I.*; Matassa, R. Fontana, L., Venditti, I.; Familiari, G.; Battocchio, C.; Magnano, E.; Nappini, S.; Leahu, G.; Belardini, A.; Li Voti, R.; Sibilia, C.
J. Phys. Chem. C, **2017**, 121, 18110-18119
 doi: 10.1021/acs.jpcc.7b07176
 [IF 2017 = 4.484; IF 2021 = 4.177; cit = 45]
89. 2017 *Feasibility of β -particle Radio Guided Surgery for a variety of "nuclear medicine" Radionuclides*
 Mancini-Terracciano, C.; Donnarumma, R.; Bencivenga, G.; Bocci, V.; Cartoni, A.; Collamati, F.; **Fratoddi, I.**;
 Giordano, A.; Indovina, L.; Maccora, D.; Marafini, M.; Mirabelli, R.; Morganti, S.; Rotili, D.; Russomando, A.; Scotognella, T.; Solfaroli Camillocci, E.; Toppi, M.; Traini, G.; Venditti, I.; Faccini, F.
Phys. Medica, **2017**, 43, 127-133
 doi: 10.1016/j.ejmp.2017.10.012
 [IF 2017 = 2.240; IF 2021 = 3.119; cit = 22]
90. 2017 *Y^{3+} embedded in polymeric nanoparticles: morphology, dimension and stability of composite colloidal system*
 Venditti, I.; Cartoni, A.; Fontana, I.; Testa, G.; Scaramuzzo, F. A.; Faccini, R.; Mancini Terracciano, C.; Solfaroli Camillocci, E.; Morganti, S.; Giordano, A.; Scotognella, T.; Rotili, D.; Dini, V.; Marini, F.; **Fratoddi, I.**
Colloid Surf. A-Physicochem. Eng. Asp. **2017**, 532, 125-131
 doi: 10.1016/j.colsurfa.2017.05.082
 [IF 2017 = 2.829; IF 2021 = 5.518; cit = 20]
91. 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, L.; Fasolato, C.; Postorino, P.; **Fratoddi, I.**; Venditti, I.; Testa, G.; Battocchio, C.
Colloid Surf. A-Physicochem. Eng. Asp. **2017**, 532, 183-188
 doi: 10.1016/j.colsurfa.2017.05.045

[IF 2017 = 2.829; IF 2021 = 5.518; cit = 62]

92. 2017 *Synthesis of gold and silver nanoparticles functionalized with organic dithiols*
Fontana, L.; Bassetti, M.; Battocchio, C.; Venditti, I.; **Fratoddi, I.***.
Colloid Surf. A-Physicochem. Eng. Asp. **2017**, 532, 282-289
doi: 10.1016/j.colsurfa.2017.05.005
[IF 2017 = 2.829; IF 2021 = 5.518; cit = 16]
93. 2017 *Sensitivity to Heavy-Metal Ions of Unfolded Fullerene Quantum Dots*
Ciotta, E.; Paoloni, S.; Richetta, M.; Proposito, P.; Tagliatesta, P.; Lorecchio, C.; Venditti, I.; **Fratoddi, I.**, Casciardi, S.; Pizzoferrato, R.
Sensors 2017, 17, 2614 (15)
doi:10.3390/s17112614
[IF 2017 = 2.475; IF 2021 = 3.847; cit = 46]
94. 2018 *Hydrophobic and hydrophilic noble metal Au and Ag nanoparticles. Breakthroughs and perspectives.*
Fratoddi, I.*
Nanomaterials **2018**, 8(1), 11
doi:10.3390/nano8010011
[IF 2018 = 4.034; IF 2021 = 5.719; cit = 70]
95. 2018 *Gold nanoparticles functionalized by Rhodamine B Isothiocyanate: a new tool to control Plasmonic Effects*
Fratoddi, I.; Cartoni, A.; Venditti, I.; Catone, D.; O'Keeffe, P.; Paladini, A.; Toschi, F.; Turchini, S.; Sciubba, F.; Testa, G.; Battocchio, C.; Carlini, L.; Proietti Zaccaria, R.; Magnano, E.; Pis, I.; Avaldi, L.
J. Colloid Interface Sci. **2018**, 513, 10-19.
doi: 10.1016/j.jcis.2017.11.010
[IF 2018 = 6.361; IF 2021 = 9.965; cit = 41]
96. 2018 *Nucleobases functionalized quantum dots and gold nanoparticles bioconjugates as a FRET system - synthesis, characterization and potential applications*
Lewandowska-Lancucka, J.; Rodzik-Czałka, Ł.; Gatta, V.; Venditti, I.; **Fratoddi, I.***; Szuwarzyński, M.; Romek, M.; Nowakowska, M.
J. Colloid Interface Sci. **2018**, 479-490
Doi: 10.1016/j.jcis.2017.12.060
[IF 2018 = 6.361; IF 2021 = 9.965; cit = 28]
97. 2018 *Response surface methodology for the optimization of phenolic compounds extraction from extra virgin olive oil with functionalized gold nanoparticles*
Fratoddi, I.*; Rapa, M.; Testa, G.; Venditti, I.; Scaramuzzo, F.A.; Vinci, G.
Microchemical J. **2018**, 138, 430-437
doi: <https://doi.org/10.1016/j.microc.2018.01.043>
[IF 2018 = 3.206; IF 2021 = 5.304; cit = 31]
98. 2018 *Plasmonic Sensor Based on Interaction between Silver Nanoparticles and Ni²⁺ or Co²⁺ in Water*
Mochi, F.; Burratti, L.; **Fratoddi, I.**; Venditti, I.; Battocchio, C.; Carlini, L.; Lucci, G.; Casalboni, M.; De Matteis, F.; Casciardi, S.; Nappini, S.; Pis, I.; Proposito, P.
Nanomaterials **2018**, 8, 488;
doi:10.3390/nano8070488
[IF 2018 = 4.034; IF 2021 = 5.719; cit = 52]
99. 2018 *Mass spectrometry characterization of DOTA-Nimotuzumab conjugate as precursor of an innovative β- tracer suitable in radio-guided surgery*
Martelli, C.; Marzano, V.; Marini, F.; Scotognella, T.; **Fratoddi, I.**; Venditti, I.; Rotili, D.; Solfaroli Camillocci, E.; Collamati, F.; Mancini-Terracciano, C.; Morganti, S.; Maccora, D.; Faccini, R.; Cartoni, A.; Giordano, A.; Castagnola, M
J. Pharm. Biomed. Anal. **2018**, 156, 8-15

doi.org/10.1016/j.jpba.2018.03.018
[IF 2018 = 2.983; IF 2021 = 3.571; cit = 5]

100. 2018 *The effect of post-mastectomy radiation therapy on breast implants: material analysis on silicone and polyurethane prosthesis*
Lo Torto, F.; Relucanti, M.; Familiari, G.; Vaia, N.; Casella, D.; Matassa, R.; Miglietta, S.; Marinozzi, F.; Bini, F.; **Fratoddi, I.**; Sciubba, F.; Cassese, R.; Tombolini, V.; Ribuffo, D.
Ann. Plast. Surg. **2018**, 6, 4706-4713
doi: 10.1097/SAP.0000000000001461
[IF 2018 = 1.448; IF 2021 = 1.763; cit = 22]
101. 2018 *Environmental Hg vapours absorption and detection by using functionalized gold nanoparticles network.*
Bearzotti, A.; Papa, P.; Macagnano, A.; Zampetti, E.; Venditti, I.; Fioravanti, R.; Fontana, L.; Matassa, R.; Familiari, G.; **Fratoddi, I.***.
J. Environ. Chem. Eng. **2018**, 6, 4706-4713
doi 10.1016/j.jece.2018.07.013
[IF 2018 = 4.300; IF 2021 = 7.968; cit = 16]
102. 2018 *Plasmon Controlled Shaping of Metal Nanoparticle Aggregates by Femtosecond Laser Induced Melting*
Catone, D.; Ciavardini, A.; Di Mario, L.; Paladini, A.; Toschi, F.; Cartoni, A.; **Fratoddi, I.**; Venditti, I.; Alabastri, A.; Proietti Zaccaria, R.; O'Keeffe, P.
J. Phys. Chem. Lett., **2018**, 9, pp 5002–5008
doi: 10.1021/acs.jpcclett.8b02117
[IF 2018 = 7.329; IF 2021 = 6.888; cit = 19]
103. 2018 *Use of Gold Nanoparticles as Substrate for Diffusive Monitoring of Gaseous Mercury*
Papa, P.; **Fratoddi, I.**; Venditti, I.; Vichi, F.; Macagnano, A.; Zampetti, E.; Bearzotti, A.
Materials, **2018**, 11, 2119
doi: 10.3390/ma11112119
[IF 2018 = 2.972; IF 2021 = 3.748; cit = 4]
104. 2019 *Effects of topical methotrexate loaded gold nanoparticle in cutaneous inflammatory mouse model*
Fratoddi, I.; Benassi, L.; Botti, E.; Vaschieri, C.; Venditti, I.; Bessar, H.; Mai, S. A.; Azzoni, P.; Magnoni, C.; Costanzo, A.; Casagrande, V.; Federici, M.; Bianchi, L.; Pellacani, G.
Nanomed.-Nanotechnol. Biol. Med. **2019**, 17, 276-286
Doi: 10.1016/j.nano.2019.01.006
[IF 2019 = 5.182; IF 2021 = 6.458; cit = 43]
105. 2019 *Gallium- and Iron-Pyoverdine coordination compounds investigated by SR-XPS and XAS*
Nicolafrancesco, C.; Porcaro, F.; Piš, I.; Nappini, S.; Simonelli, L.; Marini, C.; Frangipani, E.; Visaggio, D.; Visca, P.; Mobilio, S.; Meneghini, C.; **Fratoddi, I.**; Iucci, G.; Battocchio, C.
Inorg. Chem. **2019**, 58, 4935-4944
Doi: 10.1021/acs.inorgchem.8b03574
[IF 2019 = 4.825; IF 2021 = 5.436; cit = 9]
106. 2019 *Highly Hydrophilic Gold Nanoparticles as Carrier for Anticancer Copper(I) Complexes: Loading and Release Studies for Biomedical Applications*
Fratoddi, I.; Venditti, I.; Battocchio, C.; Carlini, L.; Amatori, S.; Porchia, M.; Tisato, F.; Bondino, F.; Magnano, E.; Pellei, M.; Santini, M.
Nanomaterials **2019**, 9, 772;
doi:10.3390/nano9050772
[IF 2019 = 4.324; IF 2021 = 5.719; cit = 42]
107. 2019 *Hydrophilic silver nanoparticles loaded into niosomes: physical-chemical characterization in view of biological applications*
Rinaldi, F.; Del Favero, E.; Moeller, J.; Hanieh, P.N.; Passeri, D.; Rossi, M.; Angeloni, L.; Venditti, I.; Marianecchi, C.;

- Carafa, M.; **Fratoddi, I.**
Nanomaterials **2019**, 9, 1177;
doi:10.3390/nano9081177
[IF 2019 = 4.324; IF 2021 = 5.719; cit = 24]
108. **2019** *Gold nanoparticles and nanorods in nuclear medicine: a mini review*
Maccora, D.; Dini, V.; Battocchio, C.; **Fratoddi, I.**; Cartoni, A.; Rotili, D.; Castagnola, M.; Faccini, R.; Bruno, I.; Scotognella, T.; Giordano, A.; Venditti, I.
Appl. Sci. **2019**, 9, 3232;
doi:10.3390/app9163232
[IF 2019 = 2.474; IF 2021 = 2.838; cit = 43]
109. **2020** *Noble metal nanoparticle-based networks as a new platform for lipase immobilization*
Chronopoulou, L.; Scaramuzzo, F.A.; Fioravanti, R.; Di Nitto, A., Cerra, S.; Palocci, C.; **Fratoddi, I.**
Int. J. Biol. Macromol. **2020**, 146, 790-797
doi 10.1016/j.ijbiomac.2019.10.047
[IF 2020 = 6.953; IF 2021 = 8.025; cit = 10]
110. **2020** *Gold nanoparticles functionalized with 4,4'-dithiobiphenyl blended with CuS in PMMA for switching memory devices*
Cerra, S.; Pica, P. Congiu, M.; Boratto, M.H.; Graeff, C.F.O.; **Fratoddi, I.**
J. Mater. Sci.-Mater. Electron. **2020**, 31, 12083-12088
<https://doi.org/10.1007/s10854-020-03753-5>
[IF 2020 = 2.478; IF 2021 = 2.779; cit = 2]
111. **2020** *Direct Conjugation of Resveratrol on Hydrophilic Gold Nanoparticles: Structural and Cytotoxic Studies for Biomedical Applications*
Venditti, I.; Iucci, G.; **Fratoddi, I.**; Cipolletti, M.; Montalesi, E.; Marino, M.; Secchi, V.; Battocchio, C.
Nanomaterials, **2020**, 10, 1898
Doi 10.3390/nano10101898
[IF = 5.076; IF 2021 = 5.719; cit = 29]
112. **2020** *Synthesis and characterization of stereoregular p-conjugated polyarylenynes, (- Ar-(E)-CH=CHCC-)n, decorated with branched bis-alkoxy side chains*
Cruciani, F.; Pasquini, C.; D'Acunzo, F.; D'Annibale, A.; **Fratoddi, I.**; Cerra, S.; Pulci, G.; Bassetti, M.
Synth. Met. **2020**, 269, 116538.
doi <https://doi.org/10.1016/j.synthmet.2020.116538>
[IF 2020 = 3.266; IF 2021 = 4.000; cit = 3]
113. **2020** *Hydrophilic Silver Nanoparticles for Hg(II) Detection in Water: direct evidence for Mercury-Silver Interaction*
Schiesaro, I. Burratti, L. Meneghini, C. **Fratoddi, I.** Proposito, P. Lim, J. Scheu, C. Venditti, I. Iucci, G. Battocchio, C.
J. Phys. Chem. C, **2020**, 124, 47, 25975-25983
doi:10.1021/acs.jpcc.0c06951
[IF 2020 = 4.126; IF 2021 = 4.177; cit = 30]
114. **2020** *Development of New and Efficient Copper(II) Complexes of Hexyl bis(pyrazolyl)acetate Ligands as Catalyst for Allylic Oxidation*
Gabrielli, S.; Pellei, M.; Venditti, I.; **Fratoddi, I.**; Battocchio, C.; Iucci, G.; Schiesaro, I.; Meneghini, C.; Palmieri, A.; Marcantoni, E.; Bagnarelli, L.; Vallesi, R.; Santini, C.
Dalton Trans. **2020**, 49, 15622(11)
doi : 10.1039/D0DT02952A
[IF 2020 = 4.390; IF 2021 = 4.569; cit = 7]
115. **2020** *Insights about the interaction of methotrexate loaded hydrophilic gold nanoparticles: spectroscopic, morphological and structural characterizations.*

- Cerra, S.; Matassa, R.; Beltrán, A.M.; Familiari, G.; Battocchio, C.; Pis, I.; Sciubba, F.; Scaramuzzo, F.A.; Del Giudice, A.; **Fratoddi, I.***
Mater. Sci. Eng. C-Mater. Biol. Appl. **2020**, 117, 111337
<https://doi.org/10.1016/j.msec.2020.11133>
 [IF 2020 = 7.328; IF 2021 = 8.457; cit = 9]
116. **2020** *Adaptive tuning of infrared emission using VO₂ thin films*
 Larciprete, M.C.; Centini, M.; Paoloni, S.; **Fratoddi, I.**; Dereshgi, S.A.; Tang, K.; Wu, J.; Aydin, K.
Sci. Rep. **2020**, 10, art number 11544.
 doi: <https://doi.org/10.1038/s41598-020-68334-2>
 [IF 2020 = 4.380; IF 2021 = 4.997; cit = 17]
117. **2020** *Radioguided surgery with beta- radiation in pancreatic Neuroendocrine Tumors: a feasibility study*
 Collamati, F.; Maccora, D.; Alfieri, S.; Bocci, V.; Cartoni, A.; Collarino, A.; De Simoni, M.; Fischetti, M.; **Fratoddi, I.**;
 Giordano, A.; Mancini-Terracciano, C.; Mirabelli, R.; Morganti, S.; Quero, G.; Rotili, D.; Scotognella, T.; Solfaroli
 Camillocci, E.; Traini, G. Venditti, I.; Faccini, R.
Sci. Rep., **2020**, 10, art. number 4015
 doi: 10.1038/s41598-020-61075-2
 [IF 2020 = 4.380; IF 2021 = 4.997; cit = 7]
118. **2021** *Binuclear organometallic Pt(II) complexes as stabilizing ligands for gold and silver metal nanoparticles*
 Cerra, S.; Fontana, L.; Rossi, E.; Bassetti, M.; Battocchio, C.; Venditti, I.; Carlini, L.; Matassa, R.; Familiari, G.;
Fratoddi, I.
Inorg. Chim. Acta **2021**, 516, 120170
 DOI: <https://doi.org/10.1016/j.ica.2020.120170> [IF 2020 2.304]
 [IF 2021 = 3.118; cit = 5]
119. **2021** *Silver nanoparticles functionalized by Fluorescein isothiocyanate or Rhodamine B isothiocyanate: fluorescent and plasmonic materials.*
Fratoddi, I.; Battocchio, C.; Iucci, G.; Catone, D.; Cartoni, A.; Paladini, A.; O'Keeffe, P.; Nappini, S.; Cerra, S.;
 Venditti, I.
Appl. Sci. **2021**, 11, 2472 (12)
 doi: 10.3390/app1106247
 [IF 2021 = 2.838; cit = 10]
120. **2021** *Functionalized Gold Nanoparticles as an Active Layer for Mercury Vapor Detection at Room Temperature*
Fratoddi, I.*; Cerra, S.; Salamone, T.A.; Fioravanti, R.; Sciubba, F.; Zampetti, E.; Macagnano, A.; Generosi, A.; Paci,
 B.; Scaramuzzo, F.A.; Matassa, R.; Familiari, G.; Battocchio, C.; Marsotto, M.; Papa, P.; Bearzotti, A.*
ACS Appl. Nano Mater. **2021**, 4, 2930–2940
 doi: 10.1021/acsanm.1c00074
 [IF 2021 = 6.140; cit = 10]
121. **2021** *Study of the interaction mechanism between hydrophilic thiol capped gold nanoparticles and melamine in aqueous medium*
 Cerra, S.; Salamone, T.A.; Sciubba, F.; Marsotto, M.; Battocchio, C.; Nappini, S.; Scaramuzzo, F.A.; Li Voti, R.; Sibilia,
 C.; Matassa, R.; Beltrán, A.M.; Familiari, G.; **Fratoddi, I.***
Colloid Surf. B-Biointerfaces, **2021**, 203, 111727
 Doi: <https://doi.org/10.1016/j.colsurfb.2021.111727>
 [IF 2021 = 5.999; cit = 10]
122. **2021** *Photoacoustics for listening to metal nanoparticle super-aggregates*
 Li Voti, R.; Leahu, G.; Sibilia, C.; Matassa, R.; Familiari, G.; Cerra, S.; Salamone, T.A.; **Fratoddi, I.***
Nanoscale Adv. **2021**, 3, 4692–4701
 Doi: 10.1039/d1na00333j
 [IF 2021 = 5.598; cit = 8]

123. 2022 *Superior transport behavior of gold nanoparticles/P3HT blends by tuning optical and structural properties.*
Grigorian S.; Fontana L.; Cerra S.; Pietsch U.; Scaramuzzo F.A.; **Fratoddi I.***
Synth. Met., **2022**, 283, 116973
Doi: 10.1016/j.synthmet.2021.116973
[IF 2021 = 4.000; cit = 2]
124. 2022 *⁹⁰Y-DOTA-Nimotuzumab: synthesis of a promising β^- radiopharmaceutical*
Scotognella, T.; Maccora, D.; Bruno, I.; Chinol, M.; Castagnola, M.; Collamati, F.; Mancini-Terracciano, C., Morganti, S.; Bocci, V.; Solfaroli Camillocci, E.; Rotili, D.; Cartoni, A.; **Fratoddi, I.**; Marini, F.; Venditti, I.; Faccini, R.; Giordano, A.
Curr. Radiopharm. **2022**, 15, 32-39
Doi 10.2174/1874471013999210104220031
[IF 2021 = 1.960; cit= 1]
125. 2022 *Hydrophilic Gold Nanoparticles as Anti-PD-L1 Antibody Carriers: Synthesis and Interface Properties*
Venditti, I.; Cartoni, A.; Cerra, S.; Fioravanti, R.; Salamone, T.A.; Sciubba, F.; Tabocchini, M.A.; Dini, V.; Battocchio, C.; Iucci, G.; Carlini, L.; Faccini, R.; Collamati, F.; Mancini Terracciano, C.; Solfaroli Camillocci, E.; Morganti, S.; Giordano, A.; Scotognella, T.; Maccora, D.; Rotili, D.; Marchese, C.; Anastasiadou, E.; Trivedi, P.; **Fratoddi, I. ***
Part. Part. Syst. Charact. **2022**, 2100282
DOI: 10.1002/ppsc.202100282
[IF 2021 = 3.467; cit = 9]
126. 2022 *Antimicrobial effectiveness of innovative photocatalysts: a review*
Lofrano, G.; Ubaldi, F.; Albarano, L.; Carotenuto, M.; Vaiano, V.; Valeriani, F.; Libralato, G.; Gianfranceschi, G.; **Fratoddi, I.**; Meric, S.; Guida, M; Spica, V.R.
Nanomaterials, **2022**, 12(16), 2831
Doi. 10.3390/nano12162831
[IF 2021 = 5.719; cit = 9]
127. 2022 *Peptide-based hydrogels: new materials for biosensing and biomedical applications*
Binaymotlagh, R.; Chronopoulou, L.; Hajareh Haghghi, F.; **Fratoddi, I.**; Palocci, C.
Materials, **2022**, 15(17), 5871
Doi: 10.3390/ma15175871
[IF 2021 = 3.748; cit = 25]
128. 2022 *Effect of ceramic nano-particles on the properties of a carbon-phenolic ablator*
Paglia, L.; Mapelli, C.; Genova, V.; Bracciale, M.F.; Marra, F.; Bartuli, C.; **Fratoddi, I.**; Pulci, G.
Polym. Compos. **2022** 43(10), pp. 7345–7359
doi <https://doi.org/10.1002/pc.26811>
[IF 2021 = 3.531; cit = 2]
129. 2022 *Organoselenium compounds as functionalizing agents for gold nanoparticles in cancer therapy*
Lorenzoni, S.; Cerra, S.; Angulo-Elizari, E.; Salamone, T.A.; Battocchio, C.; Marsotto, M.; Scaramuzzo, F.A.; Sanmartin, C.; Plano, D.; **Fratoddi, I.**
Colloid Surf. B-Biointerfaces, **2022**, 219, 112828
Doi: 10.1016/j.colsurfb.2022.112828
[IF 2021 = 5.999; cit = 4]
130. 2023 *Surface modification of TiO₂ nanoparticles with organic molecules and their biological applications*
Haghghi, F.H.; Mercurio, M.; Cerra, S.; Salamone, T.A.; Binaymotlagh, R.; Palocci, C.; Romano Spica, V.; **Fratoddi, I. ***
J. Mat. Chem. B, **2023**, 11, 2334
Doi: 10.1039/d2tb02576k
[IF 2021 = 7.571; cit = 7]
131. 2023 *Preparation of Hydrogel Composites Using a Sustainable Approach for in situ Silver Nanoparticles Formation*

- Chronopoulou, L.; Binaymotlagh, R.; Cerra, S.; Hajareh Haghighi, F.; Di Domenico, E. G.; Sivori, F.; **Fratoddi, I.**; Mignardi, S.; Palocci, C.
Materials **2023**, *16*(6), 2134.
<https://doi.org/10.3390/ma16062134>
 [IF 2021 = 3.748; cit = 2]
132. **2023** *Thiol-Functionalized Palladium Nanoparticles Networks: Synthesis, Characterization, and Room Temperature (Toxic) Vapor Detection*
 Cerra, S.; Salamone, T.A.; Bearzotti, A.; Haghighi, F.H.; Mercurio, M.; Marsotto, M.; Battocchio, C.; Fioravanti, R.; Diociaiuti, M.; **Fratoddi, I.** *
Part. Part. Syst. Charact. **2023**, 2200189
<https://doi.org/10.1002/ppsc.202200189>
 [IF 2021 = 3.467; cit = 1]
133. **2023** *Noble metal nanoparticles networks stabilized by rod-like organometallic bifunctional thiols*
 Cerra, S.; Carlini, L.; Salamone, T.A.; Hajareh Haghighi, F.; Mercurio, M.; Pennacchi, B.; Sappino, C.; Battocchio, C.; Nottola, S.A.; Matassa, R.; **Fratoddi, I.**
ChemistrySelect **2023** *8*, e202300874 (8 pp)
 Doi: 10.1002/slct.202300874
 [IF 2021 = 2.307; cit = 1]
134. **2023** *Gold nanorods as a vehicle for Technetium-99m radiopharmaceuticals: preparation and preliminary radiobiological in vitro tests*
 Binelli, L.; Dini, V.; Amatori, S.; Scotognella, T.; Giordano, A.; De Berardis, B.; Bertelà, F.; Battocchio, C.; Iucci, G.; **Fratoddi, I.**; Cartoni, A.; Venditti, I.
Nanomaterials **2023** *13*, 1898
 Doi: 10.3390/nano13131898
 [IF 2021 = 5.719; cit = 0]
135. **2023** *Self-Assembling Peptide-Based Magnetogels for the Removal of Heavy Metals from Water*
 Hajareh Haghighi, F.; Binaymotlagh, R.; Chronopoulou, L.; Cerra, S.; Marrani, A.G.; Amato, F.; Palocci, C.; **Fratoddi, I.**
Gels **2023**, *9*(8), 621;
 Doi: 10.3390/gels9080621
 [IF 2021 = 4.60 cit = 0]
136. **2023** *Acrylates-based hydrophilic co-polymeric nanobeads as nanocarriers for imaging agents*
 Cerra, S.; Dini, V.; Salamone, T.A.; Haghighi, F.H.; Mercurio, M.; Cartoni, A.; Del Giudice, A.; Marsotto, M.; Venditti, I.; Battocchio, C.; Scaramuzza, F.A.; Matassa, R.; Nottola, S.; Faccini, R.; Mirabelli, R.; **Fratoddi, I.** *
Colloids and Surf A, **2023**, *674*, 131829
 Doi : 10.1016/j.colsurfa.2023.131829
 [IF 2021 = 5.518; cit = 0]
137. **2023** *Thiol functionalised gold nanoparticles loaded with methotrexate for cancer treatment: synthesis, characterisation, and in vitro studies on neuroblastoma cell lines*
 Salamone, T.A.; Rutigliano, L.; Pennacchi, B.; Cerra, S.; Matassa, R.; Nottola, S.; Sciubba, F.; Battocchio, C.; Marsotto, M.; Del Giudice, A.; Chumakov, A.; Davydok, A.; Grigorian, S.; Canettieri, G.; Agostinelli, E.; **Fratoddi, I.** *
J. Colloid Interface Sci. **2023**, *649*, 264-278
 Doi : 10.1016/j.jcis.2023.06.078
 [IF 2021 = 9.965; cit = 1]
138. **2023** *Teratogenic effects of environmental concentration of nanoplastics on freshwater organisms*
 Cesarini, G.; Secco, S.; Taurozzi, D.; Venditti, I.; Battocchio, C.; Marcheggiani, S.; Mancini, L.; **Fratoddi, I.**;
 Scalici, M.; Puccinelli, C.
Science of the Total Environment, **2023** *898*, 165564
 Doi: 10.1016/j.scitotenv.2023.165564
 [IF 2021 = 10.753 cit = 1]

Elenco Conference Proceedings e Capitoli di Libro presenti su Scopus

1. 1999 *Second Harmonic Generation in PMMA films doped with Organometallic Complexes*, Casalboni, M.; D'Amato, R.; **Fratoddi, I.**; Furlani, A.; Pizzoferrato, R.; Sarcineli, F.; Senesi, R.; Vannucci, A.; Varasi, M.
Radiat. Eff. Defects Solids, **1999**, 150(1-4),629-634.
doi: 10.1080/10420159908226236
Conference proceedings
2. 2008 *Nanostructured Polymers: development and trends, highlights and shadows*. Russo, M.V.; **Fratoddi, I.**
Expert Commentary, in Nanotechnology Research Developments, (2008), Editor: R. Jiménez-Contreras, (Nova Science Publishers, Inc NY) ISBN 1-60021-899-7, pp 1-5.
Expert Commentary, in Encyclopedia of Nanotechnology (2 Volume Set) Authors / Editors: Elwood D. Carlson (pp 1-5), ISBN: 978-1-60692-079-4 (2009)
Expert Commentary, in Nanomaterials: New Research Developments Editors: Egor I. Pertsov (pp. 13-17) ISBN: 978-1-60456-300-9 (2008)
Expert Commentary, Book chapter
3. 2010 Chapter 1 –“Nanostructured macromolecules” in *Advances in macromolecules: perspectives and applications*
Fratoddi, I.; Venditti, I.; Russo, M.V. Ed. MV Russo, Springer **2010** pp.1-100
ISBN 978-90-481-3191-4
DOI: 10.1007/978-90-481-3192-1_1
Book chapter, in Advances in Macromolecules: Perspectives and Application
4. 2010 *Breakthroughs for gold nanoparticles: perspectives and applications*
Fratoddi, I.*.; Venditti, I.; Russo, M.V.
Expert Commentary, in “Gold Nanoparticles: Properties, Characterization and Fabrication.”, 2010, Editor: P. Chow (Nova Science Publishers, Inc NY) chapter 13, 299-306 ISBN: 978-1-61668-009-1
Expert Commentary, Book chapter
5. 2011 *New developments in X-ray Photoelectron Spectroscopy applied to nanostructured materials*.
Fratoddi, I.*.; Battocchio, C.; Polzonetti G.
Expert Commentary, in “X-ray Photoelectron Spectroscopy”, 2011, Editor: Johanna M. Wagner, (Nova Science Publishers, Inc NY) ISBN 978-1-61668-915-5, 2011, chapter 8, 201-207
Expert Commentary, Book chapter
6. 2014 *Semiconductor-metal phase transition of vanadium dioxide nanostructures on silicon substrate: Applications for thermal control of spacecraft*
Leahu G.; Li Voti, R.; Larciprete M.C.; Belardini A.; Mura F.; **Fratoddi I.**; Sibilia C.; Bertolotti M.
AIP Conference Proceedings 2014, 1603, Pages 62 – 70
Doi: 10.1063/1.4883043
7. 2014 *Structural properties of π - π Conjugated network in polymer thin films studied by x-ray cross-correlation analysis*.
Kurta, R. P.; Grodd, L.; Mikayelyan, E.; Gorobtsov, O.Y.; **Fratoddi, I.**; Venditti, I.; Sprung, M.; Grigorian, S.; Vartanyants, I.A.
Journal of Physics: Conference Series, 2014, 499 (1), art. no. 012021,
DOI: 10.1088/1742-6596/499/1/012021
Conference proceedings 22nd International Congress on X-Ray Optics and Microanalysis

8. 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.
Procedia Engineering, **2015**, 120, 781–786
Doi: 10.1016/j.proeng.2015.08.822
Conference proceedings Euroensors 2015

9. 2015 *Gold and silver nanoparticles-based networks as advanced materials for optoelectronic devices*
Fontana, L.; Venditti, I.; **Fratoddi, I.**; Leahu, G.; Belardini, A.; Li Voti, R.; Sibilìa, C.; Matassa, R.; Familiari, G.
IET Conference Publications, **2016**, 2016(CP704)
Conference paper: 18th Italian National Conference on Photonic Technologies (Fotonica 2016) ISBN: 978-1-78561-268-8
Contributo premiato dal comitato organizzatore

10. 2020 *Gold nanoparticles-based extraction of phenolic compounds from olive mill wastewater: A rapid and sustainable method*
Rapa, M.; Vinci, G.; Ciano, S. Cerra, S.; **Fratoddi, I.**
AIP Conference Proceedings, **2020**, 2257, 020010
Doi: 10.1063/5.0023606
Conference Proceedings

Attività brevettuale

Attività brevettuale rappresentata da 3 brevetti internazionali ed uno nazionale, 1 in preparazione

1. 2006 Method for controlling the dimensions and the morphology of nanostructural polymeric materials, materials thereby obtained and uses thereof
Palocci, C.; Russo, M. V.; Belsito, C.M.A.; Cernia, E.; D'Amato, R.; **Fratoddi, I.**; Panzavolta, F.; Soro, S.; Venditti, I.
Brevetto depositato in data 9 novembre 2004 n° RM2004A000555. PCT/IT20057000653
International Publication Number **WO 2006051572**
2. 2014 *Ionizing radiation dosimeter for measuring doses of ionizing radiation, comprises a sealed holder that houses an organometallic polymer formulation dissolved in a halogenated organic solvent in different concentrations.*
Graeff, C.F. O.; Bronze Uhle, E. S.; Fernandes, D.M.; Russo, M.V.; **Fratoddi, I.**;
Brevetto internazionale **2014** Patent Number: **WO2014201536-A1**. Patent Assignee: UNIV ESTADUAL PAULISTA DE MESQUITA FILHO. **PCT/BR2014/000234**
3. 2020 *New benzylguanidine compound for use as radio-tracer, for diagnosis and/or treatment of tumors, and for radio-guided surgery or tumor surgery radio-guided by beta-particle detection*
Faccini, R.; Solfaroli Camillocci, E.; Rotili, D.; Ciogli, A.; Cartoni, A.; **Fratoddi, I.**; Venditti, I.
Patent number WO2020144586-A1 (Main IPC A61K-051/04)
PCT/IB2020/050105 WO/2020/144586
<https://youtu.be/Cu3NxO6DiS8>
4. 2020 Propulsore ionico ad alta efficienza
Di Lellis, A.M.; **Fratoddi, I.**; Venditti, I.; Leoni, R.; Gaggero, A.; Mattioli, F.; Selci, S.
Brevetto italiano 102018000004683 data di concessione 02/09/**2020**
5. 2024 Proposta brevettuale derivante da progetto egione Lazio TANA, in corso di sottomissione