

Ilaria Fratoddi Publication list (1997-2023)

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
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
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
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
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
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
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
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
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. <i>J. Appl. Phys.</i> 2003 , 93(12), 10071-10077 doi:10.1063/1.1574176
10.	2003	<i>Diethynyl-Zn-Porphyrin based assemblies: optical and morphological studies of nanostructured thin films</i> Fratoddi, I. ; Battocchio, C.; D'Amato, R.; Di Egidio, G. P.; Ugo, L.; Polzonetti, G.; Russo, M. V. <i>Mater. Sci. Eng. C</i> 2003 , C23(6-8), 867-871. doi:10.1016/j.msec.2003.09.152

11.	2004	<i>Structure of a monolayer of Pd-Diethynylbiphenyl deposited on chromium studied by Total Reflection Exafs</i> D'Acapito, F.; Fratoddi, I. ; D'Amato, R.; Russo, M. V.; Contini, G.; Davoli, I.; Mobilio, S.; Polzonetti, G. <i>Sens. Actuator B-Chem.</i> , 2004 , B100 (1-2), 131-134. doi:10.1016/j.snb.2003.12.032
12.	2004	<i>Organometallic Platinum(II) and Palladium(II) polymers containing 2,6-diethynyl-4-nitroaniline bridging spacer and related dinuclear model complexes</i> D'Amato, R.; Fratoddi, I.* ; Cappotto, A.; Altamura, P.; Delfini, M.; Bianchetti, C.; Bolasco, A.; Polzonetti, G.; Russo, M. V. <i>Organometallics</i> 2004 , 23(12), 2860-2869 doi: 10.1021/om049972w
13.	2004	<i>Electrical and Morphological Characterization of Poly(Monosubstituted)Acetylene Based Membranes: Application as Humidity and Organic Vapours Sensors</i> Fratoddi, I.* ; Altamura, P.; Bearzotti, A.; Furlani, A.; Russo, M. V. <i>Thin Solid Films</i> , 2004 , 458(1-2), 292-298 doi:10.1016/j.tsf.2003.12.065
14.	2004	<i>Resistive type sensor for Humidity and short alcohols detection</i> Palummo, L.; Fratoddi, I. ; Russo, M.V.; Bearzotti, A. <i>Sensor Letters</i> 2004, 2(3, 4), 205-210. doi: 10.1166/sl.2004.058
15.	2004	<i>NEXAFS study of a Pt-containing rod-like organometallic polymer (Pt-DEBP). Molecular orientation onto hopp, Au/Si(111), Cr/Si(111) and Si(111) surfaces</i> Battocchio, C.; Fratoddi, I. ; Russo, M. V.; Polzonetti, G. <i>Chem. Phys. Lett.</i> 2004 , 400(4-6), 290-295. doi:10.1016/j.cplett.2004.10.126
16.	2005	<i>Preparation of Nanostructured Organometallic Polymer/Palladium Hybrids by Metal Vapor Synthesis: Structure and Morphology</i> Belotti, F.; Fratoddi, I. ; La Groia, A.; Martra, G.; Mustarelli, P.; Panziera, N.; Pertici, P.; Russo, M. V. <i>Nanotechnology</i> 2005 , 16(11), 2575-2581 doi: 10.1088/0957-4484/16/11/018
17.	2006	<i>Local structure parameters through the fitting of XANES spectra using a multidimensional interpolation: application to the Pd K-edge of Pd-diethynylbiphenyl polymer</i> Smolentsev, G.; Soldatov, A. V.; D'Acapito, F.; Polzonetti, G.; Fratoddi, I. <i>J. Phys.-Condes. Matter</i> 2006 , 18(3), 759-766. doi: 10.1088/0953-8984/18/3/001
18.	2006	<i>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</i> Panziera, N.; Pertici, P.; Fratoddi, I. ; La Groia, A.; Russo, M. V. <i>J. Organomet. Chem.</i> 2006 , 691(12), 2648-2656. doi: 10.1016/j.jorganchem.2006.01.058
19.	2006	<i>XAS Study of a Pt-Containing Rod-like Organometallic Polymer</i> Battocchio, C.; D'Acapito, F.; Smolentsev, G.; Soldatov, A. V.; Fratoddi, I. ; Contini, G.; Davoli, I.; Polzonetti, G.; Mobilio, S. <i>Chem. Phys.</i> 2006 , 325(2-3), 422-428 doi:10.1016/j.chemphys.2006.01.014
20.	2006	<i>Platinum (II) dialkynyl bridged binuclear complex and related multinuclear oligomer: comparison of EXAFS and X-ray Crystal Structure Studies</i> Battocchio, C.; D'Acapito, F.; Fratoddi, I. ; La Groia, A.; Polzonetti, G.; Roviello, G.; Russo, M.V. <i>Chem. Phys.</i> 2006 , 328(1-3), 269-274.

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21.	2006	<i>Intermolecular stacking of a tetrานuclear 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)]</i> Fratoddi, I.* ; Delfini, M.; Sciubba, F.; Hursthouse, M. B.; Ogilvie, H. R.; Russo, M. V. <i>J. Organomet. Chem.</i> 2006 , 691(26), 5920-5926 doi:10.1016/j.jorgancem.2006.09.059
22.	2007	<i>Nanostructured organometallic polymer and palladium/polymer hybrid: surface investigation and sensitivity to relative humidity and hydrogen in Surface Acoustic Wave sensors</i> Caliendo, C.; Contini, G.; Fratoddi, I.* ; Irrera, S.; Pertici, P.; Scavia, G.; Russo, M.V. <i>Nanotechnology</i> 2007 , 18 (12) 125504(1-7) doi: 10.1088/0957-4484/18/12/125504
23.	2007	<i>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</i> Fratoddi, I.* ; Battocchio, C.; Groia, A.L.; Russo, M.V. <i>J. Polym. Sci. Pol. Chem.</i> 2007 , 45(15), 3311-3329 doi: 10.1002/pola.22081
24.	2007	<i>Dinuclear Pt and Pd Complexes with Metalloporphyrin Bridges: a NEXAFS Study of the Electronic Structure and Self Assembling Properties</i> Battocchio, C.; Fratoddi, I. ; Iucci, G.; Russo, M. V.; Goldoni, A.; Parent, Ph.; Polzonetti, G. <i>Mater. Sci. Eng. C-Biomimetic Supramol. Syst.</i> 2007 , 27(5-8) 1338–1342 doi:10.1016/j.msec.2006.06.014
25.	2007	<i>Gold nanoclusters - organometallic polymer nanocomposites: synthesis and characterization</i> Vitale, F.; Mirenghi, L.; Piscopiello, E.; Pellegrini, G.; Trave, E.; Mattei, G.; Fratoddi, I. ; Russo, M. V.; Tapfer, L.; Mazzoldi, P. <i>Mater. Sci. Eng. C-Biomimetic Supramol. Syst</i> 2007 , 27(5-8), 1300–1304 doi:10.1016/j.msec.2006.06.041
26.	2007	<i>Nanostructured Gold/Conjugated Polymer Hybrids by Metal Vapor Synthesis: Preparation, Chemical Structure and Morphology</i> Fratoddi, I.* ; Panziera, N.; Pertici, P.; Martra, G.; Bertinetti, L.; Russo, M. V. <i>Mater. Sci. Eng. C-Biomimetic Supramol. Syst.</i> 2007 , 27(5-8) 1305–1308 doi:10.1016/j.msec.2006.09.039
27.	2007	<i>Binuclear Transition-Metal complexes on Gold: Molecular Orientation by Angular Dependent NEXAFS Spectroscopy</i> Battocchio, C.; Fratoddi, I. ; Russo, M. V.; Caravetta, V.; Monti, S.; Iucci, G.; Borgatti, F.; Polzonetti, G. <i>Surf. Sci.</i> 2007 , 601(18) 3943–3947 doi:10.1016/j.susc.2007.04.154
28.	2007	<i>Lipolytic enzymes with improved activity and selectivity upon adsorption on polymeric nanoparticles</i> Palocci, C.; Chronopoulou, L.; Venditti, I.; Cernia, E.; Diociaiuti, M.; Fratoddi, I. ; Russo, M. V. <i>Biomacromolecules</i> , 2007 , 8(10), 3047-3053. doi: 10.1021/bm070374l
29.	2008	<i>Synthesis and characterization of gold nanoparticles stabilized by Palladium(II) phosphine thiol</i> Vitale, F.; Vitaliano, R.; Battocchio, C.; Fratoddi, I.* ; Piscopiello, E.; Tapfer, L.; Russo, M. V. <i>J. Organomet. Chem.</i> 2008 , 693(6), 1043-1048. doi:10.1016/j.jorgancem.2007.12.024
30.	2008	<i>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</i> Pasquini, C.; Fratoddi, I. ; Capitani, D.; Mannina, L.; Bassetti, M. <i>J. Org. Chem.</i> 2008 , 73(10), 3892-3899.

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32.	2008	<i>H₂S gas interaction with Pt(II) containing polymetallaynes of selected chain length: an Xps and Exafs study</i> Battocchio, C; Fratoddi, I. ; Russo, M.V.; Polzonetti, G. <i>J. Phys. Chem. A</i> 2008 , 112(32); 7365-7373 DOI: 10.1021/jp803119j
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34.	2008	<i>Alcohol vapor sensory properties of nanostructured conjugated polymers</i> Bearzotti, A.; Macagnano, A.; Pantalei, S.; Zampetti, E.; Venditti, I.; Fratoddi, I. ; Russo, M. V. <i>J. Phys.: Condens. Matter</i> 2008 , 20(47), 474207(1-6). doi: 10.1088/0953-8984/20/47/474207
35.	2008	<i>Nanobeads-based Assays. The case of gluten detection</i> Venditti, I.; Fratoddi, I. ; Russo, M. V.; Bellucci, S.; Crescenzo, R.; Iozzino, L.; Staiano, M.; Aurilia, V.; Varriale, A.; Rossi, M.; D'Auria, S. <i>J. Phys.: Condens. Matter</i> 2008 , 20(47), 474202(1-4) doi: 10.1088/0953-8984/20/47/474202
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41.	2010	<i>Self-assembled nanoparticles of functional copolymers for photonic applications</i>

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