

Publications list of Dr. Paola Vitale

Publications

1. D. Bianchi, R. Migliore, P. Vitale, M. Garad, P. Pousinha, H. Marie, V. Lessmann, M. Migliore, Dynamic modulation of the membrane electrical properties of mouse hippocampal CA1 pyramidal neurons during strong and sustained inputs. *In preparation*.
2. P. Vitale, A. R. Salgueiro-Pereira, C. A. Lupascu, R. Migliore, M. Migliore, H. Marie, Analysis of age-dependent alterations in excitability properties of CA1 pyramidal neurons in an APPS1 model of Alzheimer's disease, *Front. Aging Neurosci.*, **2021**, Under review.
3. S. Sáray, C. A. Rössert, S. Appukuttan, R. Migliore, P. Vitale, C. A. Lupascu, L. L. Bologna, W. Van Geit, A. Romani, A. P. Davison, E. Muller, T. F. Freund, S. Káli, HippoUnit: A software tool for the automated testing and systematic comparison of detailed models of hippocampal neurons based on electrophysiological data. *PLoS Comput. Biol.*, **2021**, 17(1): e1008114.
4. C. Rizzo, R. Arrigo, N. Tz. Dintcheva, G. Gallo, F. Giannici, R. Noto, A. Sutura, P. Vitale, F. D'Anna, Supramolecular Hydro-and Ionogels: a study of their properties and antibacterial activity, *Chem.-Eur J.*, **2017**, 23, 16297-16311.
5. F. D'Anna, C. Rizzo, P. Vitale, S. Marullo, F. Ferrante, Supramolecular complexes formed by Dimethoxypillar[5]arene and imidazolium salts: a joint experimental and computational investigation, *New J. Chem.*, **2017**, 41, 12490-12505.
6. P. Cancemi, M. Buttacavoli, F. D'Anna, S. Feo, R. M. Fontana, R. Noto, A. Sutura, P. Vitale, G. Gallo, The effects of structural changes on the anti-microbial and anti-proliferative activities of diimidazolium salts, *New J. Chem.*, **2017**, 41, 3574-3585.
7. P. Vitale, F. D'Anna, F. Ferrante, C. Rizzo, R. Noto, □□-conjugated diimidazolium salts: rigid structures to obtain organized materials, *Phys. Chem. Chem. Phys.*, **2015**, 17, 26903-26917.
8. F. D'Anna, S. Marullo, G. Lazzara, P. Vitale, R. Noto, Aggregation Processes of Perylene Bisimide Diimidazolium Salts, *Chem.-Eur. J.*, **2015**, 21, 14780-14790.
9. P. Vitale, F. D'Anna, S. Marullo, R. Noto, Organic salts and aromatic substrates in two-component gel phase formation: the study of properties and release processes, *Soft Matter*, **2015**, 11, 6652-6662.
10. F. D'Anna, C. Rizzo, P. Vitale, G. Lazzara, R. Noto, Diatonic organic salts: gelators for ionic liquids, *Soft Matter*, **2014**, 10, 9281-9292.
11. F. D'Anna, S. Marullo, P. Vitale, C. Rizzo, P. Lo Meo, R. Noto, Ionic liquid binary mixtures: Promising reaction media for carbohydrate conversion into 5-hydroxymethylfurfural, *Appl. Catal. A: Gen.*, **2014**, 482, 287-293.
12. C. Rizzo, F. D'Anna, P. Vitale, S. Marullo, R. Noto, Two-component Hydrogels formed by Cyclodextrins and Dicationic Imidazolium salts, *Eur. J. Org. Chem.*, **2014**, 1013-1024.
13. F. D'Anna, P. Vitale, F. Ferrante, S. Marullo, R. Noto, The Gelling Ability of Some Diimidazolium Salts: Effect of Isomeric Substitution of the Cation and Anion, *ChemPlusChem*, **2013**, 78, 331-342 .

14. F. D'Anna, S. Marullo, P. Vitale, R. Noto, Geminal Imidazolium Salts: A new Class of Gelators, *Langmuir*, **2012**, 28, 10849-10859.
15. F. D'Anna, S. Marullo, P. Vitale, R. Noto, Binary Mixtures of Ionic Liquids: A Joint Approach to Investigate their Properties and Catalytic Ability, *Chem. Phys. Chem.*, **2012**, 13, 1877-1884.
16. F. D'Anna, S. Marullo, P. Vitale, R. Noto, Synthesis of aryl azides: A probe reaction to study the synergetic action of ultrasounds and ionic liquids, *Ultrasonics Sonochemistry*, **2012**, 19, 136-142 .
17. F. D'Anna, S. Marullo, P. Vitale, R. Noto, The effect of the cation π -surface area on the 3D organization and catalytic ability of imidazolium-based ionic liquids, *Eur. J. Org. Chem.*, **2011**, 28, 5681-5689.
18. F. D'Anna, S. Murullo, P. Vitale, R. Noto, Electronic and Steric Effects: How Do They Work in Ionic Liquids? The Case of Benzoic Acid Dissociation, *J. Org. Chem.*, **2010**, 75, 4828-4834.
19. F. D'Anna, S. Marullo, P. Vitale, R. Noto, A Preliminary Investigation of the Combined Effect of Ultrasounds and Ionic Liquids on the Synthesis of Aryl Azides by SNAR, *Acc. Scienze Lettere Arti Palermo*, **2009**, Serie Quinta, 25, tomo I: Scienze, 19-28.
20. F. D'Anna, P. Vitale, R. Noto, Determination of Basic Strength of Aliphatic Amines through Ion Pair Formation in Some Ionic Liquid Solutions, *J. Org. Chem.*, **2009**, 74, 6224-6230.

International Conference Proceedings

1. P. Vitale, C. A. Lupascu, L. L. Bologna, M. Shah, A. Romani, J.-D. Courcol, S. Antonel, W. A. H. van Geit, Y. Shi, J. M. Leslie Budd, A. Gulyas, S. Kali, M. Migliore, R. Migliore, M. Pezzoli, S. Sáray, L. Tar, D. Schlingloff, P. Berki "Data-driven modeling of mouse CA1 and DG neurons" in 28th Annual Computational Neuroscience Meeting CNS*2019, Barcelona, July 2019.
2. F. D'Anna, A. Meli, P. Vitale, F. Billeci, S. Marullo, C. Rizzo, R. Noto "Ionic liquids binary mixtures and zeolites: a combination to promote carbohydrates conversion into 5-hydroxymethylfurfural" in 8th Green Solvents Conference, Kiel, October-2016.
3. C. Rizzo, F. D'Anna, F. Billeci, S. Marullo, P. Vitale; R. Noto "Acidic imidazolium salts: catalysts for biomass transformation" in 8th Green Solvents Conference, Kiel, October 2016.
4. S. Marullo, F. D'Anna, F. Billeci, C. Rizzo, P. Vitale, R. Noto "How mixing ionic liquids affects a Diels-Alder reaction" in 8th Green Solvents Conference, Kiel, October 2016.
5. C. Rizzo, F. D'Anna, G. Gallo, P. Vitale, A. Sutera, A. M. Puglia, R. Noto "Diimidazolium organic salts and supramolecular gels exerting antimicrobial activity" in XV RSC-SCI Joint Meeting on Heterocyclic Chemistry, Taormina (Me), May 2016.
6. C. Rizzo, F. D'Anna, P. Vitale, S. Marullo, R. Noto "Functionalized Dicationic Ionic Liquids Applied to the Study of Michael Addition" in XXXX "A. Corbella" Summer School, Gargnano (BS), June 2015.
7. F. D'Anna, P. Vitale, S. Marullo, C. Rizzo, R. Noto "Self-assembly process of diimidazolium salts: the effect of the alkyl chain length and isomeric substitution" in 5th EuCheMS Chemistry Congress, Istanbul, September 2014.

8. S. Marullo, F. D'Anna, C. Rizzo, P. Vitale, R. Noto "Supramolecular aggregation of bis-imidazolium functionalised perylene bisimides" in 14th Anglo-Italian Meeting on heterocyclic Chemistry, Windsor, June 2014.
9. C. Rizzo, F. D'Anna, S. Marullo, P. Vitale, R. Noto "Functionalised Imidazolium Dicationic Ionic Liquids used as reaction media for base catalyzed organic reactions" in European-Winter School on Physical Organic Chemistry (E-WISPOC) Bressanone, February 2014.
10. F. D'Anna, S. Marullo, C. Rizzo, P. Vitale, R. Noto "Ionic Liquids Binary Mixtures: Promising Reaction Media for Carbohydrates Conversion in 5-HMF" in 1th Euchems Congress on Green and Sustainable Chemistry, Budapest, October 2013.
11. F. D'Anna, P. Vitale, S. Marullo, C. Rizzo, R. Noto "Two Components Organogels as molecular recognition systems: properties, behavior and future applications" in XXXVIII "A. Corbella" Summer School, Gargnano (BS), June 2013.
12. P. Vitale, F. D'Anna, S. Marullo, C. Rizzo, R. Noto "Diimidazolium-based Organic Salts as Low Molecular Weight Hydro-and Organogelators" in European-Winter School on Physical Organic Chemistry (E-WiSPOC), Bressanone, January 2013.
13. F. D'Anna, S. Marullo, P. Vitale, R. Noto "Ionogels formed by geminal imidazolium salts: a preliminary investigation" in XIII RSC-SCI Joint Meeting on Heterocyclic Chemistry, Catania, May 2012.
14. F. D'Anna, S. Marullo, P. Vitale, R. Noto "Ionic Liquids binary mixtures: the influence of the composition on their properties and catalytic ability" in Faraday Discussion 154, Belfast, August 2011.
15. F. D'Anna, S. Marullo, P. Vitale, R. Noto "Geminal imidazolium salts: a new class of gelators" in European-Winter School on Physical Organic Chemistry (E-WiSPOC), Bressanone, January 2011.
16. F. D'Anna, F. Ferrante, P. Vitale, R. Noto "A joint of experimental investigations about the structural organization of two geminal ionic liquids" in 42nd IUPAC CONGRESS Chemistry Solutions, Glasgow, August 2009.