Nicola Taccardi

List of Publications by Year
in descending order

60 papers	2,051 citations	236925 25 h-index	243625 44 g-index
64 all docs	64 docs citations	64 times ranked	2998 citing authors

#	Article	IF	Citations
1	Scavenging of bacteria or bacterial products by magnetic particles functionalized with a broad-spectrum pathogen recognition receptor motif offers diagnostic and therapeutic applications. Acta Biomaterialia, 2022, 141, 418-428.	8.3	11
2	Capturing spatially resolved kinetic data and coking of Gaâ€“Pt supported catalytically active liquid metal solutions during propane dehydrogenation<i>in situ</i>. Faraday Discussions, 2021, 229, 359-377.	3.2	16
3	CO Permeability and Wetting Behavior of Ionic Liquids on Pt(111): An IRAS and PM-IRAS Study from Ultrahigh Vacuum to Ambient Pressure. Journal of Physical Chemistry C, 2021, 125, 15301-15315.	3.1	9
4	Unraveling Structural Details in Ga-Pd SCALMS Systems Using Correlative Nano-CT, 360Â° Electron Tomography and Analytical TEM. Catalysts, 2021, 11, 810.	3.5	7
5	GaPt Supported Catalytically Active Liquid Metal Solution Catalysis for Propane Dehydrogenationâ€“Support Influence and Coking Studies. ACS Catalysis, 2021, 11, 13423-13433.	11.2	28
6	Adsorption Motifs and Molecular Orientation at the Ionic Liquid/Noble Metal Interface: [C₂C₁Im][NTf₂] on Pt(111). Langmuir, 2021, 37, 12596-12607.	3.5	9
7	Interaction between Ionic Liquids and a Pt(111) Surface Probed by Coadsorbed CO as a Test Molecule. Journal of Physical Chemistry Letters, 2021, 12, 10079-10085.	4.6	5
8	Gaâ€“Ni supported catalytically active liquid metal solutions (SCALMS) for selective ethylene oligomerization. Catalysis Science and Technology, 2021, 11, 7535-7539.	4.1	14
9	Coke Formation during Propane Dehydrogenation over Gaâˆ'Rh Supported Catalytically Active Liquid Metal Solutions. ChemCatChem, 2020, 12, 1085-1094.	3.7	24
10	Stable and Selective Dehydrogenation of Methylcyclohexane using Supported Catalytically Active Liquid Metal Solutions â€“ Ga₅₂Pt/SiO₂ SCALMS. ChemCatChem, 2020, 12, 4533-4537.	3.7	17
11	Incorporation of Boron in Mesoporous Bioactive Glass Nanoparticles Reduces Inflammatory Response and Delays Osteogenic Differentiation. Particle and Particle Systems Characterization, 2020, 37, 2000054.	2.3	30
12	Antioxidant mesoporous Ce-doped bioactive glass nanoparticles with anti-inflammatory and pro-osteogenic activities. Materials Today Bio, 2020, 5, 100041.	5.5	66
13	Optimized Polymer Electrolyte Membrane Fuel Cell Electrode Using TiO₂ Nanotube Arrays with Well-Defined Spacing. ACS Applied Nano Materials, 2020, 3, 4157-4170.	5.0	14
14	Toward Highly Dispersed Mesoporous Bioactive Glass Nanoparticles With High Cu Concentration Using Cu/Ascorbic Acid Complex as Precursor. Frontiers in Chemistry, 2019, 7, 497.	3.6	55
15	Structural Analysis of Liquid Metal Catalysts in Porous Silica Utilizing Nano-CT and Analytical Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 422-423.	0.4	3
16	Highly Effective Propane Dehydrogenation Using Gaâ€“Rh Supported Catalytically Active Liquid Metal Solutions. ACS Catalysis, 2019, 9, 9499-9507.	11.2	76
17	Acrylic Acid Synthesis from Lactide in a Continuous Liquid-Phase Process. ACS Sustainable Chemistry and Engineering, 2019, 7, 7140-7147.	6.7	12
18	Operando DRIFTS and DFT Study of Propane Dehydrogenation over Solid- and Liquid-Supported Ga_{<i>x</i>}Pt_{<i>y</i>} Catalysts. ACS Catalysis, 2019, 9, 2842-2853.	11.2	83

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19	SPIONs functionalized with small peptides for binding of lipopolysaccharide, a pathophysiologically relevant microbial product. Colloids and Surfaces B: Biointerfaces, 2019, 174, 95-102.	5.0	6
20	Reactions of a Polyhalide Ionic Liquid with Copper, Silver, and Gold. ChemistryOpen, 2019, 8, 15-22.	1.9	15
21	Zwitterionic Hydrobromic Acid Carriers for the Synthesis of 2â€Bromopropionic Acid from Lactide. ChemSusChem, 2018, 11, 1063-1072.	6.8	5
22	Biodegradable nanostructures: Degradation process and biocompatibility of iron oxide nanostructured arrays. Materials Science and Engineering C, 2018, 85, 203-213.	7.3	28
23	Correlative 3D-Characterization of Liquid Metal Catalysts (LMC) utilizing X-ray and Analytical Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 556-557.	0.4	3
24	Highly Selective Synthesis of Acrylic Acid from Lactide in the Liquid Phase. ChemSusChem, 2018, 11, 2936-2943.	6.8	18
25	Photochemistry in a soft-glass single-ring hollow-core photonic crystal fibre. Analyst, The, 2017, 142, 925-929.	3.5	35
26	Spectroscopic Observation and Molecular Dynamics Simulation of Ga Surface Segregation in Liquid Pdâ€“Ga Alloys. Chemistry - A European Journal, 2017, 23, 17701-17706.	3.3	19
27	Synthesis of copper-containing bioactive glass nanoparticles using a modified StÃ¶ber method for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2017, 150, 159-167.	5.0	73
28	Structural and functional dissection reveals distinct roles of Ca2+-binding sites in the giant adhesin SiiE of Salmonella enterica. PLoS Pathogens, 2017, 13, e1006418.	4.7	18
29	Noble Metals on Anodic TiO₂ Nanotube Mouths: Thermal Dewetting of Minimal Pt Coâ€Catalyst Loading Leads to Significantly Enhanced Photocatalytic H₂ Generation. Advanced Energy Materials, 2016, 6, 1501926.	19.5	72
30	Timing of calcium nitrate addition affects morphology, dispersity and composition of bioactive glass nanoparticles. RSC Advances, 2016, 6, 95101-95111.	3.6	64
31	ZnO quantum dots modified bioactive glass nanoparticles with pH-sensitive release of Zn ions, fluorescence, antibacterial and osteogenic properties. Journal of Materials Chemistry B, 2016, 4, 7936-7949.	5.8	44
32	Surface enrichment of Pt in Ga2O3 films grown on liquid Pt/Ga alloys. Surface Science, 2016, 651, 16-21.	1.9	18
33	Vacuum Surface Science Meets Heterogeneous Catalysis: Dehydrogenation of a Liquid Organic Hydrogen Carrier in the Liquid State. ChemPhysChem, 2015, 16, 1873-1879.	2.1	13
34	Complementary Molecular Dynamics and X-ray Reflectivity Study of an Imidazolium-Based Ionic Liquid at a Neutral Sapphire Interface. Journal of Physical Chemistry Letters, 2015, 6, 549-555.	4.6	37
35	Pd Nanoparticle Formation in Ionic Liquid Thin Films Monitored by in situ Vibrational Spectroscopy. Langmuir, 2015, 31, 12126-12139.	3.5	17
36	Boron containing magnetic nanoparticles for neutron capture therapyÂâ€“ an innovative approach for specifically targeting tumors. Applied Radiation and Isotopes, 2015, 106, 151-155.	1.5	16

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37	In Situ Heterogeneous Catalysis Monitoring in a Hollowâ€Core Photonic Crystal Fiber Microflow Reactor. Advanced Materials Interfaces, 2014, 1, 1300093.	3.7	12
38	Interactions Between the Room-Temperature Ionic Liquid [C₂C₁Im][OTf] and Pd(111), Well-Ordered Al₂O₃, and Supported Pd Model Catalysts from IR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 3188-3193.	3.1	43
39	Interface Controls Spontaneous Crystallization in Thin Films of the Ionic Liquid [C₂C₁Im][OTf] on Atomically Clean Pd(111). Langmuir, 2014, 30, 6846-6851.	3.5	22
40	Redox chemistry, solubility, and surface distribution of Pt(II) and Pt(IV) complexes dissolved in ionic liquids. Journal of Molecular Liquids, 2014, 192, 103-113.	4.9	22
41	Development and characterization of magnetic iron oxide nanoparticles with a cisplatin-bearing polymer coating for targeted drug delivery. International Journal of Nanomedicine, 2014, 9, 3659.	6.7	90
42	Influence of Substituents and Functional Groups on the Surface Composition of Ionic Liquids. Chemistry - A European Journal, 2014, 20, 3954-3965.	3.3	37
43	Interactions of Imidazoliumâ€Based Ionic Liquids with Oxide Surfaces Controlled by Alkyl Chain Functionalization. ChemPhysChem, 2013, 14, 3673-3677.	2.1	22
44	Chemical and (Photo)â€Catalytical Transformations in Photonic Crystal Fibers. ChemCatChem, 2013, 5, 641-650.	3.7	30
45	Functionalization of Oxide Surfaces through Reaction with 1,3-Dialkylimidazolium Ionic Liquids. Journal of Physical Chemistry Letters, 2013, 4, 30-35.	4.6	36
46	Oxide Growth Efficiencies and Self-Organization of TiO₂Nanotubes. Journal of the Electrochemical Society, 2012, 159, H697-H703.	2.9	15
47	Inside Back Cover: Monitoring of Liquid-Phase Organic Reactions by Photoelectron Spectroscopy (Angew. Chem. Int. Ed. 11/2012). Angewandte Chemie - International Edition, 2012, 51, 2783-2783.	13.8	0
48	Cyclic Thiouronium Ionic Liquids: Physicochemical Properties and their Electronic Structure Probed by Xâ€Ray Induced Photoelectron Spectroscopy. Chemistry - A European Journal, 2012, 18, 8288-8291.	3.3	15
49	Organic Reactions in Ionic Liquids Studied by in Situ XPS. ChemPhysChem, 2012, 13, 1725-1735.	2.1	50
50	Inside Cover: Organic Reactions in Ionic Liquids Studied by in Situ XPS (ChemPhysChem 7/2012). ChemPhysChem, 2012, 13, 1602-1602.	2.1	0
51	Ultraâ€Low Concentration Monitoring of Catalytic Reactions in Photonic Crystal Fiber. Chemistry - A European Journal, 2012, 18, 1586-1590.	3.3	23
52	Selective catalytic conversion of biobased carbohydrates to formic acid using molecular oxygen. Green Chemistry, 2011, 13, 2759.	9.0	176
53	Influence of the Counterion on the Synthesis of ZnO Mesocrystals under Solvothermal Conditions. Chemistry - A European Journal, 2011, 17, 2923-2930.	3.3	39
54	Catalyst recycling in monophasic Pt-catalyzed hydrosilylation reactions using ionic liquids. Applied Catalysis A: General, 2011, 399, 69-74.	4.3	12

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55	Oxidative Depolymerization of Lignin in Ionic Liquids. ChemSusChem, 2010, 3, 719-723.	6.8	213
56	Liquidâ€Liquid Biphasic, Platinumâ€Catalyzed Hydrosilylation of Allyl Chloride with Trichlorosilane using an Ionic Liquid Catalyst Phase in a Continuous Loop Reactor. Advanced Synthesis and Catalysis, 2008, 350, 2599-2609.	4.3	41
57	On the Mechanism of Palladium-Catalyzed Cross-Coupling of Diazonium Salts with Aryltrifluoroborates: A Combined ESI-MS/NMR Study. European Journal of Inorganic Chemistry, 2007, 2007, 4645-4652.	2.0	21
58	N-substituted diphosphinoamines: Toward rational ligand design for the efficient tetramerization of ethylene. Journal of Catalysis, 2007, 245, 279-284.	6.2	90
59	Chloride based ionic liquids as promoting agents for Meerwein reaction in solventless conditions. Tetrahedron Letters, 2006, 47, 4759-4762.	1.4	31
60	Ionic Liquids as Reaction Media for Palladium-Catalysed Cross-Coupling of Aryldiazonium Tetrafluoroborates with Potassium Organotrifluoroborates. European Journal of Inorganic Chemistry, 2005, 2005, 582-588.	2.0	29