

# Lucia Pasquato

## List of Publications by Year in descending order

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87  
papers

4,756  
citations

87723

38  
h-index

98622

67  
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101  
all docs

101  
docs citations

101  
times ranked

5369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decorating carbon nanotubes with metal or semiconductor nanoparticles. <i>Journal of Materials Chemistry</i> , 2007, 17, 2679.	6.7	622
2	Nanozymes: Gold-Nanoparticle-Based Transphosphorylation Catalysts. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6165-6169.	7.2	474
3	Gold nanoparticles-based protease assay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3978-3982.	3.3	274
4	The role of sulfur functionalities in activating and directing olefins in cycloaddition reactions. <i>Tetrahedron</i> , 1988, 44, 6755-6794.	1.0	150
5	Carboxylate~Imidazole Cooperativity in Dipeptide-Functionalized Gold Nanoparticles with Esterase-like Activity. <i>Journal of the American Chemical Society</i> , 2005, 127, 1616-1617.	6.6	139
6	The (Z)- and (E)-1,2-bis(phenylsulfonyl)ethylenes as synthetic equivalents to acetylene as dienophile. <i>Journal of Organic Chemistry</i> , 1984, 49, 596-604.	1.7	137
7	Functional gold nanoparticles for recognition and catalysis. <i>Journal of Materials Chemistry</i> , 2004, 14, 3481.	6.7	124
8	Dispersable Carbon Nanotube/Gold Nanohybrids: Evidence for Strong Electronic Interactions. <i>Small</i> , 2005, 1, 527-530.	5.2	100
9	Substrate Modulation of the Activity of an Artificial Nanoesterase Made of Peptide-Functionalized Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 400-404.	7.2	96
10	N-Methylimidazole-functionalized gold nanoparticles as catalysts for cleavage of a carboxylic acid ester. <i>Chemical Communications</i> , 2000, , 2253-2254.	2.2	95
11	Quantitative Correlation of Solvent Polarity with the $\hat{\pm}$ -/310-Helix Equilibrium: A Heptapeptide Behaves as a Solvent-Driven Molecular Spring. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3388-3392.	7.2	91
12	Active and Stable Embedded Au@CeO <sub>2</sub> Catalysts for Preferential Oxidation of CO. <i>Chemistry of Materials</i> , 2010, 22, 4335-4345.	3.2	87
13	Conversion of Bis(trichloromethyl) Carbonate to Phosgene and Reactivity of Triphosgene, Diphosgene, and Phosgene with Methanol. <i>Journal of Organic Chemistry</i> , 2000, 65, 8224-8228.	1.7	85
14	Effect of Core Size on the Partition of Organic Solutes in the Monolayer of Water-Soluble Nanoparticles: An ESR Investigation. <i>Journal of the American Chemical Society</i> , 2005, 127, 16384-16385.	6.6	81
15	Synthesis, characterization and properties of water-soluble gold nanoparticles with tunable core size. <i>Journal of Materials Chemistry</i> , 2003, 13, 2471-2478.	6.7	77
16	EPR Study of Dialkyl Nitroxides as Probes to Investigate the Exchange of Solutes between the Ligand Shell of Monolayers of Protected Gold Nanoparticles and Aqueous Solutions. <i>Journal of the American Chemical Society</i> , 2004, 126, 9326-9329.	6.6	75
17	Water-Soluble Gold Nanoparticles Protected by Fluorinated Amphiphilic Thiolates. <i>Journal of the American Chemical Society</i> , 2008, 130, 15678-15682.	6.6	75
18	Reversible Aggregation/Deaggregation of Gold Nanoparticles Induced by a Cleavable Dithiol Linker. <i>Langmuir</i> , 2005, 21, 5537-5541.	1.6	65

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19	Nanozymes: Functional Nanoparticle-based Catalysts. <i>Supramolecular Chemistry</i> , 2005, 17, 163-171.	1.5	65
20	Metallodendrimers as Transphosphorylation Catalysts. <i>Journal of the American Chemical Society</i> , 2007, 129, 6982-6983.	6.6	65
21	Gold nanoparticles with patterned surface monolayers for nanomedicine: current perspectives. <i>European Biophysics Journal</i> , 2017, 46, 749-771.	1.2	64
22	Formation of Patches on 3D SAMs Driven by Thiols with Immiscible Chains Observed by ESR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3060-3064.	7.2	61
23	SN2 and AdN-E Mechanisms in Bimolecular Nucleophilic Substitutions at Vinyl Carbon. The Relevance of the LUMO Symmetry of the Electrophile. <i>Journal of the American Chemical Society</i> , 1995, 117, 2297-2300.	6.6	56
24	Monolayer Protected Gold Nanoparticles on Ceria for an Efficient CO Oxidation Catalyst. <i>Chemistry of Materials</i> , 2007, 19, 650-651.	3.2	56
25	Hydrolytic Metallo-Nanozymes: From Micelles and Vesicles to Gold Nanoparticles. <i>Molecules</i> , 2016, 21, 1014.	1.7	56
26	Enantiopure thiosulfonium salts in asymmetric synthesis. Face selectivity in electrophilic additions to unfunctionalised olefins. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1565.	2.0	50
27	Synthesis of a Stable Helical Peptide and Grafting on Gold Nanoparticles. <i>Langmuir</i> , 2003, 19, 2521-2524.	1.6	50
28	X-ray Structures and Anionotropic Rearrangements of Di-tert-butyl-Substituted Thiiranium and Thiirenium Ions. A Structure-Reactivity Relationship. <i>Journal of Organic Chemistry</i> , 2000, 65, 3367-3370.	1.7	48
29	ESR spectroscopy as a tool to investigate the properties of self-assembled monolayers protecting gold nanoparticles. <i>Nanoscale</i> , 2010, 2, 668.	2.8	48
30	Patchy and Janus Nanoparticles by Self-Organization of Mixtures of Fluorinated and Hydrogenated Alkanethiolates on the Surface of a Gold Core. <i>ACS Nano</i> , 2016, 10, 9316-9325.	7.3	48
31	An authentic case of in-plane nucleophilic vinylic substitution: the anionotropic rearrangement of di-tert-butylthiirenium ions into thietium ions. <i>Journal of the American Chemical Society</i> , 1993, 115, 4527-4531.	6.6	46
32	Nucleophilic Reactions at the Sulfur of Thiiranium and Thiirenium Ions. New Insight in the Electrophilic Additions to Alkenes and Alkynes. Evidence for an Episulfurane Intermediate. <i>Journal of the American Chemical Society</i> , 1999, 121, 3944-3950.	6.6	46
33	Solvent Polarity Controls the Helical Conformation of Short Peptides Rich in C $\alpha$ -Tetrasubstituted Amino Acids. <i>Chemistry - A European Journal</i> , 2007, 13, 407-416.	1.7	43
34	Consequences of fixing three parallel coplanar double bonds in close proximity with different geometries. Synthesis and spectral parameters of syn- and anti-sesquinorbornatriene. <i>Journal of the American Chemical Society</i> , 1986, 108, 3453-3460.	6.6	40
35	Complexes of Platinum(II) Containing Neutral and Deprotonated 9-Methyladenine. Synthesis, X-ray Structures, and NMR Studies on the Cyclic Trimeric-[L2Pt{9-MeAd( $\hat{\alpha}$ H)}]3(NO3)3 and the Dinuclear-[L2Pt(ONO2){9-MeAd( $\hat{\alpha}$ H)}PtL2](NO3)2(L = PMePh2). <i>Inorganic Chemistry</i> , 2003, 42, 7861-7871.	1.9	40
36	Self-Organization of Mixtures of Fluorocarbon and Hydrocarbon Amphiphilic Thiolates on the Surface of Gold Nanoparticles. <i>ACS Nano</i> , 2012, 6, 7243-7253.	7.3	40

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37	Role of Secondary Structure in the Asymmetric Acylation Reaction Catalyzed by Peptides Based on Chiral C <sub>1</sub> -Tetrasubstituted $\alpha$ -Amino Acids. <i>Journal of Organic Chemistry</i> , 2004, 69, 3849-3856.	1.7	39
38	Morphology of mixed-monolayers protecting metal nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 1403-1412.	6.7	38
39	Gold nanoparticles protected by fluorinated ligands for 19F MRI. <i>Chemical Communications</i> , 2013, 49, 8794.	2.2	36
40	Anionotropic rearrangements of tert-butyl- and adamantylthiiranium ions into thietanium ions. A novel case of selectivity. <i>Journal of the American Chemical Society</i> , 1991, 113, 6600-6607.	6.6	34
41	Cooperative nanosystems. <i>Journal of Peptide Science</i> , 2008, 14, 174-183.	0.8	32
42	Bis(arylsulphonyl)acetylenes. <i>Tetrahedron Letters</i> , 1991, 32, 2177-2178.	0.7	31
43	Multivalent recognition of bis- and tris-Zn-porphyrins by N-methylimidazole functionalized gold nanoparticles. <i>Chemical Communications</i> , 2003, , 1004-1005.	2.2	29
44	1,1-Bis(benzenesulfonyl)ethylene: A synthetic equivalent of ethylene 1,2-dipole. <i>Tetrahedron Letters</i> , 1984, 25, 3643-3646.	0.7	28
45	Novel type of selectivity in anionotropic rearrangements. <i>Journal of the American Chemical Society</i> , 1988, 110, 6900-6901.	6.6	26
46	Duality of Mechanism in the Tetramethylfluoroformamidinium Hexafluorophosphate-Mediated Synthesis of N-Benzyloxycarbonylamino Acid Fluorides. <i>Journal of Organic Chemistry</i> , 2001, 66, 5905-5910.	1.7	25
47	NMR enantiodifferentiation of thiiranium cations by chiral hexacoordinated phosphate anions. <i>Tetrahedron Letters</i> , 2002, 43, 5517-5520.	0.7	25
48	Physico-Chemical Characteristics of Gold Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2014, 66, 81-152.	0.7	25
49	Gold nanoparticles protected by fluorinated ligands: Syntheses, properties and applications. <i>Journal of Fluorine Chemistry</i> , 2015, 177, 2-10.	0.9	24
50	Reactivity of phenyl(tolylsulfonyl)acetylene towards dienes and homo-dienes: cycloadditions versus fragmentation-addition reactions. <i>Tetrahedron Letters</i> , 1988, 29, 831-834.	0.7	23
51	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 3510-3514.	1.6	23
52	Differential reactivity of the inner and outer positions of Au <sub>25</sub> (SCH <sub>2</sub> CH <sub>2</sub> Ph) <sub>18</sub> dimeric staples under place exchange conditions. <i>Chemical Communications</i> , 2015, 51, 3204-3207.	2.2	23
53	Gold nanoparticles as drug carriers: a contribution to the quest for basic principles for monolayer design. <i>Journal of Materials Chemistry B</i> , 2015, 3, 432-439.	2.9	23
54	Functionalized Gold Nanoparticles as Contrast Agents for Proton and Dual Proton/Fluorine MRI. <i>Nanomaterials</i> , 2019, 9, 879.	1.9	21

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55	An artificial ionophore based on a polyhydroxylated steroid dimer. <i>Chemical Communications</i> , 2002, , 3066-3067.	2.2	20
56	Thermal and photochemical addition of phenyl(arylsulphonyl)acetylenes to alkenes. <i>Journal of the Chemical Society Chemical Communications</i> , 1985, , 1597.	2.0	19
57	Routes to the preparation of mixed monolayers of fluorinated and hydrogenated alkanethiolates grafted on the surface of gold nanoparticles. <i>Faraday Discussions</i> , 2016, 191, 527-543.	1.6	19
58	Straightforward Synthesis of Fluorinated Amphiphilic Thiols. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3308-3313.	1.2	18
59	Mixed Fluorinated/Hydrogenated Self-Assembled Monolayer-Protected Gold Nanoparticles: In Silico and In Vitro Behavior. <i>Small</i> , 2019, 15, e1900323.	5.2	18
60	Cycloaddition Behavior of 2-Substituted Norbornadienes towards 4-Phenyl-4H-1,2,4-triazole-3,5-dione (PTAD): Homo Diels-Alder Reactivity versus Insertion, Rearrangement, and [2 + 2] Cycloaddition. <i>Chemische Berichte</i> , 1987, 120, 531-535.	0.2	17
61	Fluorinated and Charged Hydrogenated Alkanethiolates Grafted on Gold: Expanding the Diversity of Mixed-Monolayer Nanoparticles for Biological Applications. <i>Bioconjugate Chemistry</i> , 2017, 28, 43-52.	1.8	17
62	Different Reactivity Modes of Cis and Trans Di-tert-butylthiiranium Tetrafluoroborates with Water. A New Insight in the Electrophilic Additions to Z and E Di-tert-butylethylenes. <i>Journal of Organic Chemistry</i> , 1997, 62, 7018-7020.	1.7	15
63	Cycloaddition of 4-Phenyl-1,2,4-triazole-3,5-dione (PTAD) to Alkylidene-2,3-benzonorbornadienes. <i>Chemische Berichte</i> , 1989, 122, 133-143.	0.2	14
64	Thiiranium and Thiirenium Ions Chemistry and Stereochemistry. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1994, 95, 265-282.	0.8	14
65	3,4-Epoxy-5-hydroxycyclopentene via Titanium(IV)-catalyzed photooxygenation and its pyrolysis to 2,4-pentadienoic acid. <i>Tetrahedron Letters</i> , 1987, 28, 311-314.	0.7	13
66	The phenylsulfenium cation: Electronic structure and gas-phase reactivity. <i>Tetrahedron Letters</i> , 1999, 40, 6073-6076.	0.7	13
67	Different Approaching Directions of $\text{I}^+$ and $\text{I}^-$ Nucleophiles to the Sulfur Atom of Thiiranium and Thiirenium Ions. <i>Chemistry - A European Journal</i> , 2000, 6, 589-590.	1.7	13
68	Gold nanoparticles protected with triethyleneglycol-Functionalized thiolates: acid-Induced clustering of the aggregates and solvent dependent optical properties. <i>Journal of Supramolecular Chemistry</i> , 2002, 2, 305-310.	0.4	13
69	C2-symmetrical sterol-polyether conjugates as highly efficient synthetic ionophores. <i>Tetrahedron Letters</i> , 2003, 44, 6121-6124.	0.7	13
70	Nucleophilic reactivity of sulfonyl oxygen. Detection and isolation of $\text{I}^3$ -sulfonium ions. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 293-294.	2.0	12
71	Mechanistic investigation on 2-aza-spiro[4,5]decan-3-one formation from 1-(aminomethyl)cyclohexylacetic acid (gabapentin). <i>Tetrahedron</i> , 2008, 64, 6739-6743.	1.0	12
72	Multivalent presentation of a hydrolytically stable GM3 lactone mimetic as modulator of melanoma cells motility and adhesion. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 2756-2763.	1.4	12

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73	1,2-bis(ARYLSULFONYL)ALKENES. A REVIEW. <i>Organic Preparations and Procedures International</i> , 1991, 23, 571-592.	0.6	11
74	anti-1,4,5,8-Tetrahydro-1,4;5,8-dimethanonaphthalene (sesquinorbornadiene), a molecule with three parallel, coplanar, and interacting double bonds. <i>Journal of the Chemical Society Chemical Communications</i> , 1985, , 418.	2.0	8
75	Unusual Rearrangement Products in the Cycloaddition of 4-Phenyl-1,2,4-triazole-3,5-dione (PTAD) to Substituted 7-Methylenenorbornenes. <i>Chemische Berichte</i> , 1986, 119, 2932-2941.	0.2	8
76	Wet-Chemical Synthesis of Porous Multifaceted Platinum Nanoparticles for Oxygen Reduction and Methanol Oxidation Reactions. <i>ACS Applied Nano Materials</i> , 0, , .	2.4	7
77	Geometry and Conformation of Thietanium Ions from Diffraction Data and Ab Initio Calculations. <i>Helvetica Chimica Acta</i> , 2001, 84, 860-866.	1.0	6
78	Biological and Biomimetic Applications of Nanoparticles. <i>Nanostructure Science and Technology</i> , 2004, , 251-282.	0.1	6
79	Sulfur Electrophiles as Mechanistic Probe. New Insight in the Electrophilic Additions. Phosphorus, Sulfur and Silicon and the Related Elements, 1999, 153, 235-245.	0.8	5
80	Crystal structures of isomeric bis(benzenesulfonyl)ethylenes, C <sub>14</sub> H <sub>12</sub> O <sub>4</sub> S <sub>2</sub> . <i>Zeitschrift für Kristallographie</i> , 1985, 170, 267-274.	1.1	4
81	Thiolate end-group regulates ligand arrangement, hydration and affinity for small compounds in monolayer-protected gold nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1373-1381.	5.0	4
82	RS as a Coupling Reagent for Phosphorylation and Carboxylic Acid Activation. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 3457-3460.	1.2	3
83	Self-sorting in mixed fluorinated/hydrogenated assemblies. <i>Supramolecular Chemistry</i> , 2017, 29, 808-822.	1.5	3
84	Gold nanoparticles protected by mixed hydrogenated/fluorinated monolayers: controlling and exploring the surface features. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	3
85	Label-Free, Rapid and Facile Gold-Nanoparticles-Based Assay as a Potential Spectroscopic Tool for Trastuzumab Quantification. <i>Nanomaterials</i> , 2021, 11, 3181.	1.9	2
86	Particles at interfaces: general discussion. <i>Faraday Discussions</i> , 2016, 191, 407-434.	1.6	1
87	Nanozymes: Functional Nanoparticle-Based Catalysts. <i>ChemInform</i> , 2006, 37, no.	0.1	0