Ioannis N Lykakis

List of Publications by Year
in descending order

81	2,684	172386	214721
papers	citations	29 h-index	47 g-index

99	99	99	3200
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decatungstate as an efficient photocatalyst in organic chemistry. Chemical Society Reviews, 2009, 38, 2609.	18.7	286
2	Mechanistic Studies of the Reduction of Nitroarenes by NaBH₄ or Hydrosilanes Catalyzed by Supported Gold Nanoparticles. ACS Catalysis, 2014, 4, 3504-3511.	5.5	257
3	Catalytic activation of hydrazine hydrate by gold nanoparticles: Chemoselective reduction of nitro compounds into amines. Catalysis Communications, 2013, 36, 48-51.	1.6	99
4	Ph₃PAuNTf₂ as a Superior Catalyst for the Selective Synthesis of 2Hâ€Chromenes: Application to the Concise Synthesis of Benzopyran Natural Products. European Journal of Organic Chemistry, 2011, 2011, 2334-2338.	1.2	94
5	Gold nanoparticles supported on TiO₂catalyse the cycloisomerisation/oxidative dimerisation of aryl propargyl ethers. Chemical Communications, 2011, 47, 803-805.	2.2	85
6	Facile Reduction of Nitroarenes into Anilines and Nitroalkanes into Hydroxylamines via the Rapid Activation of Ammoniaâ‹… Borane Complex by Supported Gold Nanoparticles. Advanced Synthesis and Catalysis, 2013, 355, 907-911.	2.1	68
7	Cyclization of 1,6-Enynes Catalyzed by Gold Nanoparticles Supported on TiO₂: Significant Changes in Selectivity and Mechanism, as Compared to Homogeneous Au-Catalysis. Organic Letters, 2012, 14, 2956-2959.	2.4	64
8	Controllable Synthesis of Mesoporous Iron Oxide Nanoparticle Assemblies for Chemoselective Catalytic Reduction of Nitroarenes. Chemistry - A European Journal, 2016, 22, 4600-4607.	1.7	60
9	Gold nanoparticles, radiations and the immune system: Current insights into the physical mechanisms and the biological interactions of this new alliance towards cancer therapy. , 2017, 178, 1-17.		59
10	Oxidative Cycloaddition of 1,1,3,3-Tetramethyldisiloxane to Alkynes Catalyzed by Supported Gold Nanoparticles. Journal of the American Chemical Society, 2011, 133, 10426-10429.	6.6	58
11	Mesoporous Auâ€“TiO2 nanoparticle assemblies as efficient catalysts for the chemoselective reduction of nitro compounds. Journal of Materials Chemistry A, 2013, 1, 14311.	5.2	52
12	Efficient visible-light photocatalytic activity by band alignment in mesoporous ternary polyoxometalateâ€“Ag₂Sâ€“CdS semiconductors. Nanoscale, 2014, 6, 8694.	2.8	49
13	Cu(II) Coordination Polymers as Vehicles in the A³ Coupling. Inorganic Chemistry, 2017, 56, 4898-4910.	1.9	49
14	The Sulfhydryl Radical (HS./S.â¯): A Contender for the Isomerization of Double Bonds in Membrane Lipids. Angewandte Chemie - International Edition, 2007, 46, 1914-1916.	7.2	47
15	Synthesis of quinolines and fused pyridocoumarins from N-propargylanilines or propargylaminocoumarins by catalysis with gold nanoparticles supported on TiO2. Tetrahedron, 2013, 69, 4612-4616.	1.0	46
16	Mesoporous CdS-sensitized TiO2 nanoparticle assemblies with enhanced photocatalytic properties: Selective aerobic oxidation of benzyl alcohols. Catalysis Today, 2015, 250, 180-186.	2.2	43
17	Reaction of hydrosilanes with alkynes catalyzed by gold nanoparticles supported on TiO2. Tetrahedron, 2012, 68, 8724-8731.	1.0	41
18	Decatungstate Photocatalyzed Oxidation of Aryl Alkanols. Electron Transfer or Hydrogen Abstraction Mechanism?. Organic Letters, 2003, 5, 2875-2878.	2.4	40

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19	Decatungstate catalyst supported on silica and Î³-alumina: Efficient photocatalytic oxidation of benzyl alcohols. Journal of Catalysis, 2007, 252, 178-189.	3.1	40
20	One-pot synthesis of highly crystalline mesoporous TiO2 nanoparticle assemblies with enhanced photocatalytic activity. Chemical Communications, 2012, 48, 6687.	2.2	40
21	Copper-Promoted Regioselective Synthesis of Polysubstituted Pyrroles from Aldehydes, Amines, and Nitroalkenes via 1,2-Phenyl/Alkyl Migration. Journal of Organic Chemistry, 2018, 83, 2104-2113.	1.7	40
22	Reduction of Nitroarenes into Aryl Amines and N-Aryl hydroxylamines via Activation of NaBH4 and Ammonia-Borane Complexes by Ag/TiO2 Catalyst. Nanomaterials, 2016, 6, 54.	1.9	38
23	trans-Fatty acids and radical stress: What are the real culprits?. Bioorganic and Medicinal Chemistry, 2006, 14, 6144-6148.	1.4	37
24	Mechanism of decatungstate photocatalyzed oxygenation of aromatic alcoholsPart II. Kinetic isotope effects studies. Journal of Molecular Catalysis A, 2007, 262, 176-184.	4.8	37
25	A Copperâ€Benzotriazoleâ€Based Coordination Polymer Catalyzes the Efficient Oneâ€Pot Synthesis of (Nâ€²â€Substituted)â€hydrazoâ€4â€arylâ€1,4â€dihydropyridines from Azines. Advanced Synthesis and Catalysis, 2017, 359, 138-145.	2.1	37
26	Selective Synthesis of Benzimidazoles from o-Phenylenediamine and Aldehydes Promoted by Supported Gold Nanoparticles. Nanomaterials, 2020, 10, 2405.	1.9	36
27	Photooxidation of aryl alkanes by a decatungstate/triethylsilane system in the presence of molecular oxygen. Tetrahedron Letters, 2004, 45, 7645-7649.	0.7	34
28	Mesoporous Cr₂O₃â€“Phosphomolybdic Acid Solid Solution Frameworks with High Catalytic Activity. Chemistry of Materials, 2011, 23, 4204-4211.	3.2	33
29	Photo-catalysis and Polyoxo-anion Decatungstate in Organic Chemistry: A Manifold Concept for Green Chemistry. Current Organic Chemistry, 2012, 16, 2400-2414.	0.9	31
30	Divergent Synthesis of the Co-isolated Mycotoxins Longianone, Isopatulin, and (Z)-Ascladiol via Furan Oxidation. Journal of Organic Chemistry, 2009, 74, 6339-6342.	1.7	30
31	Titaniaâ€Supported Gold Nanoparticles Catalyze the Selective Oxidation of Amines into Nitroso Compounds in the Presence of Hydrogen Peroxide. Advanced Synthesis and Catalysis, 2016, 358, 1500-1508.	2.1	30
32	Streamlining Organic Free Radical Synthesis through Modern Molecular Technology: from Polymer Supported Synthesis to Microreactors and Beyond. Current Organic Synthesis, 2010, 7, 177-188.	0.7	28
33	Selective Reduction of Azines to Benzyl Hydrazones with Sodium Borohydride Catalyzed by Mesoporous Silicaâ€Supported Silver Nanoparticles: A Catalytic Route towards Pyrazole Synthesis. Advanced Synthesis and Catalysis, 2017, 359, 2949-2960.	2.1	28
34	Mechanistic Studies on the Michael Addition of Amines and Hydrazines To Nitrostyrenes: Nitroalkane Elimination via a Retro-aza-Henry-Type Process. Journal of Organic Chemistry, 2018, 83, 1176-1184.	1.7	28
35	Direct and Indirect Chemiluminescence: Reactions, Mechanisms and Challenges. Molecules, 2021, 26, 7664.	1.7	27
36	Functionalized 3(2H)-furanones via photooxygenation of (Î²-keto)-2-substituted furans: Application to the biomimetic synthesis of merrekentrone C. Organic and Biomolecular Chemistry, 2011, 9, 5655.	1.5	26

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37	Ordered mesoporous Cr2O3 frameworks incorporating Keggin-type 12-phosphotungstic acids as efficient catalysts for oxidation of benzyl alcohols. Journal of Materials Chemistry, 2012, 22, 6919.	6.7	26
38	Ene Reaction of Singlet Oxygen, Triazolinedione, and Nitrosoarene with Chiral Deuterium-Labeled Allylic Alcohols:Â The Interdependence of Diastereoselectivity and Regioselectivity Discloses Mechanistic Insights into the Hydroxy-Group Directivity. Journal of the American Chemical Society, 2002, 124, 14403-14409.	6.6	25
39	Green photocatalytic organic transformations by polyoxometalates vs. mesoporous TiO2 nanoparticles: selective aerobic oxidation of alcohols. Photochemical and Photobiological Sciences, 2015, 14, 563-568.	1.6	25
40	Gold-Catalyzed Dehydrogenative Cycloaddition of Tethered 1,n-Dihydrodisilanes to Alkynes. Organometallics, 2013, 32, 665-672.	1.1	24
41	Deuterium kinetic isotope effects in homogeneous decatungstate catalyzed photooxygenation of 1,1-diphenylethane and 9-methyl-9H-fluorene: evidence for a hydrogen abstraction mechanism. Tetrahedron Letters, 2005, 46, 7835-7839.	0.7	23
42	Recent advances in Câ€“H bond formation in aqueous media: a mechanistic perspective. Green Chemistry, 2008, 10, 153-163.	4.6	23
43	Structural Diversity and Catalytic Properties in a Family of Ag(I)-Benzotriazole Based Coordination Compounds. Crystal Growth and Design, 2018, 18, 5638-5651.	1.4	23
44	Nanogold(0)-Catalyzed Addition of Heteroelement Ïƒ Linkages to Functional Groups. Synthesis, 2019, 51, 2435-2454.	1.2	23
45	Biomimetic Synthesis of Dimeric Metabolite Acremine G via a Highly Regioselective and Stereoselective Dielsâ^'Alder Reaction. Organic Letters, 2009, 11, 2988-2991.	2.4	22
46	Homogeneous Decatungstate-Catalyzed Photooxygenation of Tetrasubstituted Alkenes:Â A Deuterium Kinetic Isotope Effect Study. Journal of Organic Chemistry, 2006, 71, 8740-8747.	1.7	21
47	Mechanism of decatungstate photocatalyzed oxygenation of aromatic alcoholsPart I. Continuous photolysis and laser flash photolysis studies. Journal of Molecular Catalysis A, 2007, 262, 170-175.	4.8	21
48	Efficient hydrosilylation of carbonyl compounds by 1,1,3,3-tetramethyldisiloxane catalyzed by Au/TiO2. Tetrahedron, 2014, 70, 6106-6113.	1.0	20
49	Radical Reactions in Aqueous Media: Origins, Reason and Applications. Current Organic Chemistry, 2009, 13, 573-598.	0.9	19
50	Photocatalytic Aerobic Oxidation of Alkenes into Epoxides or Chlorohydrins Promoted by a Polymerâ€Supported Decatungstate Catalyst. ChemPhotoChem, 2017, 1, 479-484.	1.5	19
51	Selective Photoinduced Reduction of Nitroarenes to N-Arylhydroxylamines. Organic Letters, 2020, 22, 4339-4343.	2.4	18
52	Mesoporous Assembled Mn₃O₄ Nanoparticle Networks as Efficient Catalysts for Selective Oxidation of Alkenes and Aryl Alkanes. ChemPlusChem, 2017, 82, 136-143.	1.3	17
53	Application of Silver Nanoparticles in the Multicomponent Reaction Domain: A Combined Catalytic Reduction Methodology to Efficiently Access Potential Hypertension or Inflammation Inhibitors. ACS Omega, 2018, 3, 16005-16013.	1.6	17
54	Alumina-Supported Gold Nanoparticles as a Bifunctional Catalyst for the Synthesis of 2-Amino-3-arylimidazo[1,2-a]pyridines. ACS Omega, 2018, 3, 17947-17956.	1.6	17

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55	Heteropolytungstic acids incorporated in an ordered mesoporous zirconia framework as efficient oxidation catalysts. RSC Advances, 2014, 4, 8402-8409.	1.7	16
56	Ordered mesoporous V₂O₅/WO₃composite catalysts for efficient oxidation of aryl alcohols. RSC Advances, 2014, 4, 46170-46178.	1.7	16
57	Copper(<scp>ii</scp>)-benzotriazole coordination compounds in click chemistry: a diagnostic reactivity study. Dalton Transactions, 2018, 47, 10491-10508.	1.6	16
58	9,10-Dicyanoanthracene photosensitized oxidation of aryl alkanols: evidence for an electron transfer mechanism. Tetrahedron Letters, 2003, 44, 6247-6251.	0.7	15
59	Acidâ€Catalyzed Cyclization of Terpenes Under Homogeneous and Heterogeneous Conditions as Probed Through Stereoisotopic Studies: A Concerted Process with Competing Preorganized Chair and Boat Transition States. Chemistry - A European Journal, 2009, 15, 11918-11927.	1.7	15
60	Metal-Catalysed A3 Coupling Methodologies: Classification and Visualisation. Catalysts, 2022, 12, 660.	1.6	13
61	Selective Reduction of Nitroarenes to Arylamines by the Cooperative Action of Methylhydrazine and a Tris(N-heterocyclic thioamidate) Cobalt(III) Complex. Journal of Organic Chemistry, 2021, 86, 2895-2906.	1.7	12
62	Skeletally Tunable Seven-Membered-Ring Fused Pyrroles. Organic Letters, 2021, 23, 6685-6690.	2.4	12
63	Biomimetic Thiyl Radical Chemistry by Î³â€irradiation of Micelles and Vesicles Containing Unsaturated Fatty Acids. Israel Journal of Chemistry, 2014, 54, 242-247.	1.0	10
64	Reaction of an Aza[60]fullerene Radical with Diphenylmethanes and Fluorenes:â€‰ A Mechanistic Approach. Journal of Organic Chemistry, 2006, 71, 829-832.	1.7	9
65	Synthesis of all-trans anandamide: A substrate for fatty acid amide hydrolase with dual effects on rabbit platelet activation. Bioorganic and Medicinal Chemistry, 2008, 16, 8359-8365.	1.4	9
66	Recent Advances in Free Radical Chemistry of C-C Bond Formation in Aqueous Media: From Mechanistic Origins to Applications. Mini-Reviews in Organic Chemistry, 2008, 5, 19-32.	0.6	9
67	Biomimetic chemistry on the protection of cis phospholipid from the thiyl radical isomerization by common antioxidants. Arkivoc, 2015, 2015, 140-153.	0.3	8
68	Polyoxometalate-Driven Ease Conversion of Valuable Furfural to trans-N,N-4,5-Diaminocyclopenten-2-ones. Journal of Organic Chemistry, 2022, 87, 2601-2615.	1.7	8
69	Decatungstate-Catalyzed Photooxygenation of S-2-Phenylbutane and Cumene via a Free Carbon-Radical Intermediate. Current Organic Chemistry, 2009, 13, 1737-1745.	0.9	7
70	Separation of cis/trans geometrical fatty acid isomers by silver-exchanged zeolite Y. Tetrahedron, 2010, 66, 2203-2209.	1.0	7
71	Zeolite NaY-Promoted Cyclization of Farnesal:â€‰ A Short Route to Nanaimoal. Journal of Organic Chemistry, 2008, 73, 2905-2908.	1.7	6
72	Selective Câ€“H Allylic Oxygenation of Cycloalkenes and Terpenoids Photosensitized by [Cu(Xantphos)(neoc)]BF4. Journal of Organic Chemistry, 2021, 86, 13503-13513.	1.7	4

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73	Thiols as an Efficient Hydrogen Atom Donor in Free Radical Transformations in Aqueous Media. Current Organic Chemistry, 2010, 14, 1075-1082.	0.9	3
74	Selective Mild Oxidation of Anilines into Nitroarenes by Catalytic Activation of Mesoporous Frameworks Linked with Goldâ€Loaded Mn₃O₄ Nanoparticles. ChemPlusChem, 2022, 87, .	1.3	3
75	LoneSelectivity of the Decatungstate-Sensitized Photooxidation of 1-Substituted Cycloalkenes. Synlett, 2004, 2004, 2131-2134.	1.0	2
76	Supported Gold Nanoparticle-Catalyzed Selective Reduction of Multifunctional, Aromatic Nitro Precursors into Amines and Synthesis of 3,4-Dihydroquinoxalin-2-Ones. Molecules, 2022, 27, 4395.	1.7	2
77	Zeolite NaY-Promoted Tandem 1,5-Diene-Carbonyl-Ene Dicyclization of Î±-Geranyl-Substituted Carbonyl Compounds. Synlett, 2008, 2008, 1635-1638.	1.0	1
78	Synthesis and Photocatalytic Properties of High-Surface-Area Mesoporous TiO2Nanoparticle Assemblies. Materials Research Society Symposia Proceedings, 2012, 1494, 315-320.	0.1	0
79	Mesoporous Auâ€“TiO2 Nanoparticle Assemblies as Efficient Catalysts for the Chemoselective Reduction of Nitro Compounds. Materials Research Society Symposia Proceedings, 2014, 1641, 1.	0.1	0
80	Mesoporous Au-loaded Fe2O3 Nanoparticle Assemblies for Chemoselective Reduction of Nitroarenes. Materials Research Society Symposia Proceedings, 2014, 1749, 1.	0.1	0
81	Mo2C as Pre-Catalyst for the C-H Allylic Oxygenation of Alkenes and Terpenoids in the Presence of H2O2. Organics, 2022, 3, 173-186.	0.6	0