

# Marco Filice

## List of Publications by Year in descending order

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80  
papers

1,916  
citations

218592

26  
h-index

302012

39  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of heterogeneous enzyme-metal nanoparticle biohybrids in aqueous media and their applications in C-C bond formation and tandem catalysis. <i>Chemical Communications</i> , 2013, 49, 6876.	2.2	121
2	Cascade Reactions Catalyzed by Bionanostructures. <i>ACS Catalysis</i> , 2014, 4, 1588-1598.	5.5	84
3	A Novel Halophilic Lipase, LipBL, Showing High Efficiency in the Production of Eicosapentaenoic Acid (EPA). <i>PLoS ONE</i> , 2011, 6, e23325.	1.1	75
4	Hybrid Decorated Core@Shell Janus Nanoparticles as a Flexible Platform for Targeted Multimodal Molecular Bioimaging of Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31032-31043.	4.0	61
5	Biosynthesis of Metal Nanoparticles: Novel Efficient Heterogeneous Nanocatalysts. <i>Nanomaterials</i> , 2016, 6, 84.	1.9	58
6	Enzyme Conformation Influences the Performance of Lipase-powered Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21080-21087.	7.2	58
7	Regioselective monodeprotection of peracetylated carbohydrates. <i>Nature Protocols</i> , 2012, 7, 1783-1796.	5.5	53
8	Different strategies to enhance the activity of lipase catalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 1531.	2.1	50
9	Cross-Linking of Lipases Adsorbed on Hydrophobic Supports: Highly Selective Hydrolysis of Fish Oil Catalyzed by RML. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2011, 88, 801-807.	0.8	46
10	Multifunctional Silica-Based Nanoparticles with Controlled Release of Organotin Metallodrug for Targeted Theranosis of Breast Cancer. <i>Cancers</i> , 2020, 12, 187.	1.7	46
11	Regioselective Hydrolysis of Different Peracetylated $\beta$ -Monosaccharides by Immobilized Lipases from Different Sources. Key Role of The Immobilization. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1969-1976.	2.1	45
12	Lecitase <sup>®</sup> ultra as regioselective biocatalyst in the hydrolysis of fully protected carbohydrates. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 51, 110-117.	1.8	43
13	Enhanced activity of an immobilized lipase promoted by site-directed chemical modification with polymers. <i>Process Biochemistry</i> , 2010, 45, 534-541.	1.8	41
14	Tailor-made PEG coated iron oxide nanoparticles as contrast agents for long lasting magnetic resonance molecular imaging of solid cancers. <i>Materials Science and Engineering C</i> , 2020, 107, 110262.	3.8	40
15	Synthesis of a heterogeneous artificial metallolipase with chimeric catalytic activity. <i>Chemical Communications</i> , 2015, 51, 9324-9327.	2.2	39
16	Preparation of an Immobilized Lipase-Palladium Artificial Metalloenzyme as Catalyst in the Heck Reaction: Role of the Solid Phase. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 2687-2696.	2.1	37
17	Selective synthesis of citrus flavonoids prunin and naringenin using heterogeneized biocatalyst on graphene oxide. <i>Green Chemistry</i> , 2019, 21, 839-849.	4.6	36
18	Reactivation of covalently immobilized lipase from <i>Thermomyces lanuginosus</i> . <i>Process Biochemistry</i> , 2009, 44, 641-646.	1.8	35

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19	Chemo-biocatalytic regioselective one-pot synthesis of different deprotected monosaccharides. <i>Catalysis Today</i> , 2009, 140, 11-18.	2.2	34
20	Immobilization of Trypsin in Lignocellulosic Waste Material to Produce Peptides with Bioactive Potential from Whey Protein. <i>Materials</i> , 2016, 9, 357.	1.3	32
21	Semisynthetic peptide-lipase conjugates for improved biotransformations. <i>Chemical Communications</i> , 2012, 48, 9053.	2.2	31
22	Synthesis of ascorbyl oleate by transesterification of olive oil with ascorbic acid in polar organic media catalyzed by immobilized lipases. <i>Chemistry and Physics of Lipids</i> , 2013, 174, 48-54.	1.5	31
23	New emerging bio-catalysts design in biotransformations. <i>Biotechnology Advances</i> , 2015, 33, 605-613.	6.0	31
24	Improved reactivation of immobilized-stabilized lipase from <i>Thermomyces lanuginosus</i> by its coating with highly hydrophilic polymers. <i>Journal of Biotechnology</i> , 2009, 144, 113-119.	1.9	29
25	Preparation of linear oligosaccharides by a simple monoprotective chemo-enzymatic approach. <i>Tetrahedron</i> , 2008, 64, 9286-9292.	1.0	26
26	Recent advances in the preparation and application of multifunctional iron oxide and liposome-based nanosystems for multimodal diagnosis and therapy. <i>Interface Focus</i> , 2016, 6, 20160055.	1.5	26
27	Palladium nanoparticles enzyme aggregate (PANEA) as efficient catalyst for Suzuki-Miyaura reaction in aqueous media. <i>Enzyme and Microbial Technology</i> , 2016, 95, 242-247.	1.6	26
28	Recent Trends in Regioselective Protection and Deprotection of Monosaccharides. <i>Current Organic Chemistry</i> , 2010, 14, 516-532.	0.9	25
29	Chemoenzymatic synthesis of neoglycoproteins driven by the assessment of protein surface reactivity. <i>RSC Advances</i> , 2014, 4, 56455-56465.	1.7	25
30	Single-step purification of different lipases from <i>Staphylococcus warneri</i> . <i>Journal of Chromatography A</i> , 2010, 1217, 473-478.	1.8	24
31	Kinetically controlled synthesis of monoglycerol esters from chiral and prochiral acids methyl esters catalyzed by immobilized <i>Rhizomucor miehei</i> lipase. <i>Bioresource Technology</i> , 2011, 102, 507-512.	4.8	23
32	Hydrolysis of fish oil by hyperactivated <i>Rhizomucor miehei</i> lipase immobilized by multipoint anion exchange. <i>Biotechnology Progress</i> , 2011, 27, 961-968.	1.3	21
33	Preparation of Lipase-Coated, Stabilized, Hydrophobic Magnetic Particles for Reversible Conjugation of Biomacromolecules. <i>Biomacromolecules</i> , 2013, 14, 602-607.	2.6	21
34	Modulation of a lipase from <i>Staphylococcus warneri</i> EX17 using immobilization techniques. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 125-132.	1.8	20
35	A Versatile Synthesis of Functionalized Nucleosides Through Regioselective Enzymatic Hydrolysis of Their Peracetylated Precursors. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 1967-1975.	1.2	20
36	Applications of Nanomaterials Based on Magnetite and Mesoporous Silica on the Selective Detection of Zinc Ion in Live Cell Imaging. <i>Nanomaterials</i> , 2018, 8, 434.	1.9	20

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37	Regioselective monohydrolysis of per-O-acetylated-1-substituted- $\beta$ -glucopyranosides catalyzed by immobilized lipases. <i>Tetrahedron</i> , 2008, 64, 10721-10727.	1.0	19
38	Medium engineering on modified <i>Geobacillus thermocatenulatus</i> lipase to prepare highly active catalysts. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 70, 144-148.	1.8	19
39	trans,trans-2,4-Hexadiene incorporation on enzymes for site-specific immobilization and fluorescent labeling. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5535.	1.5	19
40	Enzymatic Synthesis of Oligosaccharides: A Powerful Tool for a Sweet Challenge. <i>Current Organic Chemistry</i> , 2013, 17, 701-718.	0.9	19
41	Immobilization Effects on the Catalytic Properties of Two <i>Fusarium Verticillioides</i> Lipases: Stability, Hydrolysis, Transesterification and Enantioselectivity Improvement. <i>Catalysts</i> , 2018, 8, 84.	1.6	19
42	Recent Advances in Multimodal Molecular Imaging of Cancer Mediated by Hybrid Magnetic Nanoparticles. <i>Polymers</i> , 2021, 13, 2989.	2.0	19
43	Different derivatives of a lipase display different regioselectivity in the monohydrolysis of per-O-acetylated 1-O-substituted- $\beta$ -galactopyranosides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 36-40.	1.8	18
44	Monosaccharide derivatives as central scaffolds in the synthesis of glycosylated drugs. <i>RSC Advances</i> , 2012, 2, 1729.	1.7	18
45	Non-Invasive Detection of Extracellular Matrix Metalloproteinase Inducer EMMPRIN, a New Therapeutic Target against Atherosclerosis, Inhibited by Endothelial Nitric Oxide. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3248.	1.8	18
46	Modulation of the Catalytic Properties of Lipase B from <i>Candida antarctica</i> by Immobilization on Tailor-Made Magnetic Iron Oxide Nanoparticles: The Key Role of Nanocarrier Surface Engineering. <i>Polymers</i> , 2018, 10, 615.	2.0	18
47	A chemo-biocatalytic approach in the synthesis of $\beta$ -O-naphtylmethyl-N-peracetylated lactosamine. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 52-53, 106-112.	1.8	16
48	Effect of ionic liquids as additives in the catalytic properties of different immobilized preparations of <i>Rhizomucor miehei</i> lipase in the hydrolysis of peracetylated lactal. <i>Green Chemistry</i> , 2010, 12, 1365.	4.6	16
49	Regioselective Deprotection of Peracetylated Disaccharides at the Primary Position Catalyzed by Immobilized Acetyl Xylan Esterase from <i>Bacillus pumilus</i> . <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6181-6185.	1.2	15
50	Fine Modulation of the Catalytic Properties of <i>Rhizomucor miehei</i> Lipase Driven by Different Immobilization Strategies for the Selective Hydrolysis of Fish Oil. <i>Molecules</i> , 2020, 25, 545.	1.7	15
51	Dramatic hyperactivation of lipase of <i>Thermomyces lanuginosa</i> by a cationic surfactant: Fixation of the hyperactivated form by adsorption on sulfopropyl-sepharose. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 122, 199-203.	1.8	14
52	Role of Folic Acid in the Therapeutic Action of Nanostructured Porous Silica Functionalized with Organotin(IV) Compounds against Different Cancer Cell Lines. <i>Pharmaceutics</i> , 2020, 12, 512.	2.0	14
53	Palladium-Nanoparticles Biohybrids in Applied Chemistry. <i>Applied Nano</i> , 2021, 2, 1-13.	0.9	14
54	Covalent Immobilization of Naringinase over Two-dimensional 2D Zeolites and its Applications in a Continuous Process to Produce Citrus Flavonoids and for Debittering of Juices. <i>ChemCatChem</i> , 2020, 12, 4502-4511.	1.8	13

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55	Screening of lipases for regioselective hydrolysis of peracetylated $\hat{1}^2$ -monosaccharides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007, 49, 12-17.	1.8	12
56	Purification, immobilization, and characterization of a specific lipase from <i>Staphylococcus warneri</i> EX17 by enzyme fractionating via adsorption on different hydrophobic supports. <i>Biotechnology Progress</i> , 2011, 27, 717-723.	1.3	12
57	Useful Oriented Immobilization of Antibodies on Chimeric Magnetic Particles: Direct Correlation of Biomacromolecule Orientation with Biological Activity by AFM Studies. <i>Langmuir</i> , 2014, 30, 15022-15030.	1.6	12
58	Synthesis of Enantiopure Drugs and Drug Intermediates by Immobilized Lipase-Catalysis. <i>Current Bioactive Compounds</i> , 2013, 9, 113-136.	0.2	12
59	Synthesis of a theranostic platform based on fibrous silica nanoparticles for the enhanced treatment of triple-negative breast cancer promoted by a combination of chemotherapeutic agents. , 2022, 137, 212823.		12
60	Enzymatic resolution of 5-hydroxy- and 8-hydroxy-2-tetralols using immobilized lipases. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 467-472.	1.8	11
61	Improving Lipase Activity by Immobilization and Post-immobilization Strategies. <i>Methods in Molecular Biology</i> , 2013, 1051, 255-273.	0.4	11
62	Lipase-Catalyzed Regioselective One-Step Synthesis of Penta-O-acetyl- $\beta$ -D-hydroxylactal. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3327-3329.	1.2	10
63	Purification and improvement of the functional properties of <i>Rhizopus oryzae</i> lipase using immobilization techniques. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 110, 111-116.	1.8	10
64	Low ionic liquid concentration in water: a green and simple approach to improve activity and selectivity of lipases. <i>RSC Advances</i> , 2014, 4, 49115-49122.	1.7	10
65	Enzyme Conformation Influences the Performance of Lipase-powered Nanomotors. <i>Angewandte Chemie</i> , 2020, 132, 21266-21273.	1.6	9
66	Broad virus inactivation using inorganic micro/nano-particulate materials. <i>Materials Today Bio</i> , 2022, 13, 100191.	2.6	9
67	The State of the Art of Investigational and Approved Nanomedicine Products for Nucleic Acid Delivery. , 2019, , 421-456.		7
68	Ionotropic Gelation-Based Synthesis of Chitosan-Metal Hybrid Nanoparticles Showing Combined Antimicrobial and Tissue Regenerative Activities. <i>Polymers</i> , 2021, 13, 3910.	2.0	7
69	Enzymatic Transformations in Food Chemistry. <i>Current Organic Chemistry</i> , 2016, 21, 139-148.	0.9	6
70	Electrospraying as a Technique for the Controlled Synthesis of Biocompatible PLGA@Ag2S and PLGA@Ag2S@SPION Nanocarriers with Drug Release Capability. <i>Pharmaceutics</i> , 2022, 14, 214.	2.0	6
71	One-pot-synthesis of 2-acetamido-2-deoxy-1,3,6-tri-O-acetyl- $\hat{1}^2$ -D-glucopyranose as intermediate for $\hat{1}^2$ -D-lactosamine octaacetate preparation. <i>Arkivoc</i> , 2006, 2006, 66-73.	0.3	5
72	Hybrid magnetic nanoparticles for multimodal molecular imaging of cancer. , 2021, , 343-386.		4

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73	Theranostic Contribution of Extracellular Matrix Metalloprotease Inducer-Paramagnetic Nanoparticles Against Acute Myocardial Infarction in a Pig Model of Coronary Ischemia-Reperfusion. Circulation: Cardiovascular Imaging, 2022, 15, .	1.3	4
74	Biocatalytic Process Optimization for the Production of High-Added-Value 6-Hydroxy and 3-Hydroxy Glycosyl Building Blocks. ChemCatChem, 2017, 9, 2536-2543.	1.8	3
75	Solid-surface activated recombinant Rhizopus oryzae lipase expressed in Pichia pastoris and chemically modified variants as efficient catalysts in the synthesis of hydroxy monodeprotected glycals. Catalysis Science and Technology, 2017, 7, 1766-1775.	2.1	3
76	Addendum: Bassan, J.C.; et al. Immobilization of Trypsin in Lignocellulosic Waste Material to Produce Peptides with Bioactive Potential from Whey Protein. Materials 2016, 9(5), 357. Materials, 2016, 9, 705.	1.3	1
77	Immobilization of Aldolase for C-C Bond Formation. Current Organic Chemistry, 2016, 20, 1243-1251.	0.9	1
78	Editorial (Thematic Issue: The Lab-on-a-protein Concept Protein as Powerful Nanometric Laboratory) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	0
79	Enzyme Engineering and Protein Modifications. , 2015, , 99-113.		0
80	Enzyme-metal nanobiohybrids in chemobiocatalytic cascade processes. , 2022, , 189-210.		0