

# Luigi Anastasia

## List of Publications by Year in descending order

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91  
papers

3,401  
citations

218677

26  
h-index

149698

56  
g-index

100  
all docs

100  
docs citations

100  
times ranked

4162  
citing authors

#	ARTICLE	IF	CITATIONS
1	Palladium-Catalyzed Alkynylation. <i>Chemical Reviews</i> , 2003, 103, 1979-2018.	47.7	1,155
2	The Plasma Membrane-associated Sialidase MmNEU3 Modifies the Ganglioside Pattern of Adjacent Cells Supporting Its Involvement in Cell-to-Cell Interactions. <i>Journal of Biological Chemistry</i> , 2004, 279, 16989-16995.	3.4	130
3	Insulin-Like Growth Factor-1 Receptor Identifies a Pool of Human Cardiac Stem Cells With Superior Therapeutic Potential for Myocardial Regeneration. <i>Circulation Research</i> , 2011, 108, 1467-1481.	4.5	111
4	Highly Satisfactory Alkynylation of Alkenyl Halides via Pd-Catalyzed Cross-Coupling with Alkynylzincs and Its Critical Comparison with the Sonogashira Alkynylation. <i>Organic Letters</i> , 2003, 5, 1597-1600.	4.6	102
5	Highly Satisfactory Procedures for the Pd-Catalyzed Cross Coupling of Aryl Electrophiles with in Situ Generated Alkynylzinc Derivatives. <i>Organic Letters</i> , 2001, 3, 3111-3113.	4.6	97
6	Catalytic and selective conversion of (Z)-2-en-4-ynoic acids to either 2H-pyran-2-ones in the presence of ZnBr <sub>2</sub> or (Z)-5-alkylidene-furan-2(5H)-ones in the presence of Ag <sub>2</sub> CO <sub>3</sub> . <i>Tetrahedron Letters</i> , 2002, 43, 5673-5676.	1.4	97
7	Reversine-treated fibroblasts acquire myogenic competence in vitro and in regenerating skeletal muscle. <i>Cell Death and Differentiation</i> , 2006, 13, 2042-2051.	11.2	89
8	Sialidase NEU3 is a peripheral membrane protein localized on the cell surface and in endosomal structures. <i>Biochemical Journal</i> , 2007, 408, 211-219.	3.7	81
9	Intrinsic cell memory reinforces myogenic commitment of pericyte-derived iPSCs. <i>Journal of Pathology</i> , 2011, 223, 593-603.	4.5	71
10	Zirconium-catalyzed carboalumination of alkynes and enynes as a route to aluminacycles and their conversion to cyclic organic compounds. <i>Tetrahedron Letters</i> , 1998, 39, 2503-2506.	1.4	64
11	Isolation and Characterization of 2 New Human Rotator Cuff and Long Head of Biceps Tendon Cells Possessing Stem Cell-Like Self-Renewal and Multipotential Differentiation Capacity. <i>American Journal of Sports Medicine</i> , 2013, 41, 1653-1664.	4.2	63
12	The Plasma Membrane Sialidase NEU3 Regulates the Malignancy of Renal Carcinoma Cells by Controlling $\beta$ 1 Integrin Internalization and Recycling. <i>Journal of Biological Chemistry</i> , 2012, 287, 42835-42845.	3.4	60
13	Brugada syndrome genetics is associated with phenotype severity. <i>European Heart Journal</i> , 2021, 42, 1082-1090.	2.2	59
14	Expression of Sialidase Neu2 in Leukemic K562 Cells Induces Apoptosis by Impairing Bcr-Abl/Src Kinases Signaling. <i>Journal of Biological Chemistry</i> , 2007, 282, 14364-14372.	3.4	47
15	Silencing of membrane-associated sialidase Neu3 diminishes apoptosis resistance and triggers megakaryocytic differentiation of chronic myeloid leukemic cells K562 through the increase of ganglioside GM3. <i>Cell Death and Differentiation</i> , 2009, 16, 164-174.	11.2	47
16	NEU3 Sialidase Strictly Modulates GM3 Levels in Skeletal Myoblasts C2C12 Thus Favoring Their Differentiation and Protecting Them from Apoptosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 36265-36271.	3.4	44
17	Cell-Based Therapies for Cardiac Regeneration: A Comprehensive Review of Past and Ongoing Strategies. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3194.	4.1	44
18	Cell reprogramming: expectations and challenges for chemistry in stem cell biology and regenerative medicine. <i>Cell Death and Differentiation</i> , 2010, 17, 1230-1237.	11.2	42

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19	Down regulation of membrane-bound Neu3 constitutes a new potential marker for childhood acute lymphoblastic leukemia and induces apoptosis suppression of neoplastic cells. <i>International Journal of Cancer</i> , 2010, 126, 337-349.	5.1	39
20	NEU3 Sialidase Is Activated under Hypoxia and Protects Skeletal Muscle Cells from Apoptosis through the Activation of the Epidermal Growth Factor Receptor Signaling Pathway and the Hypoxia-inducible Factor (HIF)-1 $\alpha$ . <i>Journal of Biological Chemistry</i> , 2013, 288, 3153-3162.	3.4	39
21	Regenerating the human heart: direct reprogramming strategies and their current limitations. <i>Basic Research in Cardiology</i> , 2017, 112, 68.	5.9	38
22	Lipogems Product Treatment Increases the Proliferation Rate of Human Tendon Stem Cells without Affecting Their Stemness and Differentiation Capability. <i>Stem Cells International</i> , 2016, 2016, 1-11.	2.5	35
23	Activation of the hypoxia-inducible factor 1 $\alpha$ promotes myogenesis through the noncanonical Wnt pathway, leading to hypertrophic myotubes. <i>FASEB Journal</i> , 2017, 31, 2146-2156.	0.5	34
24	Gangliosides as a potential new class of stem cell markers: the case of GD1a in human bone marrow mesenchymal stem cells. <i>Journal of Lipid Research</i> , 2014, 55, 549-560.	4.2	33
25	Molecular subtyping of metastatic melanoma based on cell ganglioside metabolism profiles. <i>BMC Cancer</i> , 2014, 14, 560.	2.6	30
26	Stereoselective Synthesis of Exocyclic Alkenes by Cu-Catalyzed Allylmagnesiation, Pd-Catalyzed Alkylation, and Ru-Catalyzed Ring-Closing Metathesis: Highly Stereoselective Synthesis of (Z)- and (E)-1 <sup>3</sup> -Bisabolenes. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 3039.	2.4	28
27	Use of Methyl Malondialdehyde as an Internal Standard for Malondialdehyde Detection: Validation by Isotope-Dilution Gas Chromatography-Mass Spectrometry. <i>Clinical Chemistry</i> , 2002, 48, 2266-2269.	3.2	28
28	Long-term results of sequential vein coronary artery bypass grafting compared with totally arterial myocardial revascularization: a propensity score-matched follow-up study. <i>European Journal of Cardio-thoracic Surgery</i> , 2014, 46, 1006-1013.	1.4	26
29	Calcium in Brugada Syndrome: Questions for Future Research. <i>Frontiers in Physiology</i> , 2018, 9, 1088.	2.8	26
30	New electromechanical substrate abnormalities in high-risk patients with Brugada syndrome. <i>Heart Rhythm</i> , 2020, 17, 637-645.	0.7	26
31	MmNEU3 sialidase overexpression in C2C12 myoblasts delays differentiation and induces hypertrophic myotube formation. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 2967-2978.	2.6	23
32	NEU4L sialidase overexpression promotes $\beta$ -catenin signaling in neuroblastoma cells, enhancing stem-like malignant cell growth. <i>International Journal of Cancer</i> , 2012, 131, 1768-1778.	5.1	22
33	NEU3 Sialidase Protein Interactors in the Plasma Membrane and in the Endosomes. <i>Journal of Biological Chemistry</i> , 2016, 291, 10615-10624.	3.4	22
34	Synthetic sulfonyl-hydrazone-1 positively regulates cardiomyogenic microRNA expression and cardiomyocyte differentiation of induced pluripotent stem cells. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 2006-2014.	2.6	20
35	NEU3 sialidase role in activating HIF-1 $\alpha$ in response to chronic hypoxia in cyanotic congenital heart patients. <i>International Journal of Cardiology</i> , 2017, 230, 6-13.	1.7	19
36	The synthetic purine reversine selectively induces cell death of cancer cells. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3207-3217.	2.6	18

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37	Modification of sialidase levels and sialoglycoconjugate pattern during erythroid and erytroleukemic cell differentiation. <i>Glycoconjugate Journal</i> , 2006, 24, 67-79.	2.7	17
38	Palladium-Catalyzed Aryl-Aryl Coupling. , 0, , 311-334.		16
39	TiF4-mediated biomimetic alkylation-cyclization cascade reaction of 2-trimethylsilylmethyl-1,5-dienes with aldehydes. <i>Tetrahedron Letters</i> , 2005, 46, 5803-5806.	1.4	16
40	Identification of lysosomal sialidase NEU1 and plasma membrane sialidase NEU3 in human erythrocytes. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 204-211.	2.6	16
41	Application of direct HPTLC-MALDI for the qualitative and quantitative profiling of neutral and acidic glycosphingolipids: The case of NEU3 overexpressing C2C12 murine myoblasts. <i>Electrophoresis</i> , 2014, 35, 1319-1328.	2.4	16
42	Sphingolipid Synthesis Inhibition by Myriocin Administration Enhances Lipid Consumption and Ameliorates Lipid Response to Myocardial Ischemia Reperfusion Injury. <i>Frontiers in Physiology</i> , 2019, 10, 986.	2.8	16
43	Comparable clinical characteristics in Brugada syndrome patients harboring SCN5A or novel SCN10A variants. <i>Europace</i> , 2019, 21, 1550-1558.	1.7	15
44	Proteomic signature of reversine-treated murine fibroblasts by 2D difference gel electrophoresis and MS: Possible associations with cell signalling networks. <i>Electrophoresis</i> , 2009, 30, 2193-2206.	2.4	14
45	Synthesis and Biological Evaluation of Several Dephosphonated Analogues of CMP-Neu5Ac as Inhibitors of GM3 Synthase. <i>Chemistry - A European Journal</i> , 2015, 21, 14614-14629.	3.3	14
46	Novel CineECG Derived From Standard 12-Lead ECG Enables Right Ventricle Outflow Tract Localization of Electrical Substrate in Patients With Brugada Syndrome. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008524.	4.8	14
47	Effects of the pulsed electromagnetic field PSTA® on human tendon stem cells: a controlled laboratory study. <i>BMC Complementary and Alternative Medicine</i> , 2016, 16, 293.	3.7	13
48	GM1 Ganglioside Promotes Osteogenic Differentiation of Human Tendon Stem Cells. <i>Stem Cells International</i> , 2018, 2018, 1-8.	2.5	13
49	Simple and selective one-pot replacement of the N-methyl group of tertiary amines by quaternization and demethylation with sodium sulfide or potassium thioacetate: an application to the synthesis of pergolide. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 2398-2403.	1.3	12
50	A practical protocol for the synthesis of 3-hydroxy-4,5-disubstituted pyridine derivatives from acyclic compounds. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 2404-2408.	1.3	12
51	Chemical structure, biosynthesis and synthesis of free and glycosylated pyridinolines formed by cross-link of bone and synovium collagen. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 5747.	2.8	12
52	SCN5A Nonsense Mutation and NF1 Frameshift Mutation in a Family With Brugada Syndrome and Neurofibromatosis. <i>Frontiers in Genetics</i> , 2019, 10, 50.	2.3	12
53	Commentary: Next Generation Sequencing and Linkage Analysis for the Molecular Diagnosis of a Novel Overlapping Syndrome Characterized by Hypertrophic Cardiomyopathy and Typical Electrical Instability of Brugada Syndrome. <i>Frontiers in Physiology</i> , 2017, 8, 1056.	2.8	11
54	Potent Inhibitors against Newcastle Disease Virus Hemagglutinin-Neuraminidase. <i>ChemMedChem</i> , 2018, 13, 236-240.	3.2	11

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55	Genotype/Phenotype Relationship in a Consanguineal Family With Brugada Syndrome Harboring the R1632C Missense Variant in the SCN5A Gene. <i>Frontiers in Physiology</i> , 2019, 10, 666.	2.8	11
56	Lactonization Method To Assign the Anomeric Configuration of the 3,4-Unsaturated Congeners of <i>N</i> -Acetylneuraminic Acid. <i>Journal of Organic Chemistry</i> , 2019, 84, 5460-5470.	3.2	11
57	Circulating S100B and Adiponectin in Children Who Underwent Open Heart Surgery and Cardiopulmonary Bypass. <i>BioMed Research International</i> , 2015, 2015, 1-6.	1.9	10
58	Cardiac Niche Influences the Direct Reprogramming of Canine Fibroblasts into Cardiomyocyte-Like Cells. <i>Stem Cells International</i> , 2016, 2016, 1-13.	2.5	10
59	Synthesis and chemical characterization of several perfluorinated sialic acid glycals and evaluation of their in vitro antiviral activity against Newcastle disease virus. <i>MedChemComm</i> , 2017, 8, 1505-1513.	3.4	10
60	Chemical Activation of the Hypoxia-Inducible Factor Reversibly Reduces Tendon Stem Cell Proliferation, Inhibits Their Differentiation, and Maintains Cell Undifferentiation. <i>Stem Cells International</i> , 2018, 2018, 1-13.	2.5	10
61	TiCl <sub>4</sub> promoted reaction of aldehydes with 1,5-dienyl allylsilanes: addition accompanied by cyclization. <i>Tetrahedron Letters</i> , 2000, 41, 3471-3474.	1.4	9
62	Over-expression of mammalian sialidase NEU3 reduces Newcastle disease virus entry and propagation in COS7 cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 504-512.	2.4	9
63	Cell Reprogramming: A New Chemical Approach to Stem Cell Biology and Tissue Regeneration. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 146-150.	1.6	9
64	The Sialic Acids Waltz: Novel Stereoselective Isomerization of the 1,7-Lactones of <i>N</i> -Acetylneuraminic Acids into the Corresponding 1,3-Lactones and Back to the Free Sialic Acids. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 1315-1321.	2.7	9
65	Elucidation of several neglected reactions in the GC-MS identification of sialic acids as heptafluorobutyrate calls for an urgent reassessment of previous claims. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4931-4939.	2.8	9
66	The acidic hydrolysis of <i>N</i> -acetylneuraminic 4,5-oxazoline allows a direct functionalization of the C5 position of Neu5Ac2en (DANA). <i>RSC Advances</i> , 2020, 10, 162-165.	3.6	9
67	Role of sialidase Neu3 and ganglioside GM3 in cardiac fibroblasts activation. <i>Biochemical Journal</i> , 2020, 477, 3401-3415.	3.7	9
68	Non-invasive assessment of the arrhythmogenic substrate in Brugada syndrome using signal-averaged electrocardiogram: clinical implications from a prospective clinical trial. <i>Europace</i> , 2019, 21, 1900-1910.	1.7	8
69	Genotype-Phenotype Correlation in a Family with Brugada Syndrome Harboring the Novel p.Gln371* Nonsense Variant in the SCN5A Gene. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5522.	4.1	8
70	The antithetic role of ceramide and sphingosine-1-phosphate in cardiac dysfunction. <i>Journal of Cellular Physiology</i> , 2021, 236, 4857-4873.	4.1	8
71	Brugada Syndrome: Warning of a Systemic Condition?. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 771349.	2.4	8
72	Novel SCN5A p.W697X Nonsense Mutation Segregation in a Family with Brugada Syndrome. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4920.	4.1	7

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73	Intramolecular Lactones of Sialic Acids. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8098.	4.1	7
74	2 <sup>1</sup> -3,4-Unsaturated sialic acid derivatives: Synthesis optimization, and biological evaluation as Newcastle disease virus hemagglutinin-neuraminidase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115563.	3.0	7
75	Brugada Syndrome: New Insights From Cardiac Magnetic Resonance and Electroanatomical Imaging. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010004.	4.8	7
76	Reversine increases multipotent human mesenchymal cells differentiation potential. <i>Journal of Biological Regulators and Homeostatic Agents</i> , 2011, 25, S25-33.	0.7	7
77	HIF-1 $\alpha$ Directly Controls WNT7A Expression During Myogenesis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 593508.	3.7	6
78	Reversine: A Synthetic Purine with a Dual Activity as a Cell Dedifferentiating Agent and a Selective Anticancer Drug. <i>Current Medicinal Chemistry</i> , 2020, 27, 3448-3462.	2.4	6
79	Glutathione Blood Concentrations: A Biomarker of Oxidative Damage Protection during Cardiopulmonary Bypass in Children. <i>Diagnostics</i> , 2019, 9, 118.	2.6	5
80	Monitoring the effectiveness of hypothermia in perinatal asphyxia infants by urinary S100B levels. <i>Clinical Chemistry and Laboratory Medicine</i> , 2019, 57, 1017-1025.	2.3	5
81	Novel SCN5A p.V1429M Variant Segregation in a Family with Brugada Syndrome. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5902.	4.1	5
82	Novel SCN5A p.Val1667Asp Missense Variant Segregation and Characterization in a Family with Severe Brugada Syndrome and Multiple Sudden Deaths. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4700.	4.1	5
83	S100B increases in cyanotic versus noncyanotic infants undergoing heart surgery and cardiopulmonary bypass (CPB). <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 1117-1123.	1.5	5
84	Human Sarcopenic Myoblasts Can Be Rescued by Pharmacological Reactivation of HIF-1 $\alpha$ . <i>International Journal of Molecular Sciences</i> , 2022, 23, 7114.	4.1	4
85	A chemical approach to myocardial protection and regeneration. <i>European Heart Journal Supplements</i> , 2016, 18, E1-E7.	0.1	3
86	Being a Scientist today: are you still having fun?. <i>Drug Discovery Today</i> , 2013, 18, 107-109.	6.4	2
87	Neu3 Sialidase Activates the RISK Cardioprotective Signaling Pathway during Ischemia and Reperfusion Injury (IRI). <i>International Journal of Molecular Sciences</i> , 2022, 23, 6090.	4.1	2
88	Highly Satisfactory Alkynylation of Alkenyl Halides via Pd-Catalyzed Cross-Coupling with Alkynylzincs and Its Critical Comparison with the Sonogashira Alkynylation.. <i>ChemInform</i> , 2003, 34, no.	0.0	1
89	Single-shot morpho-functional and structural characterization of the left-ventricle in a mouse model of acute ischemia-reperfusion injury with an optimized 3D IntraGate cine FLASH sequence at 7T MR. <i>Magnetic Resonance Imaging</i> , 2020, 68, 127-135.	1.8	1
90	Palladium-Catalyzed Alkynylation. <i>ChemInform</i> , 2003, 34, no.	0.0	0

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91	Stem Cells and the Right Ventricle. , 2012, , 39-46.		0