

Luca Menabuoni

List of Publications by Year in descending order

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65
papers

2,728
citations

293460

24
h-index

299063

42
g-index

69
all docs

69
docs citations

69
times ranked

2297
citing authors

#	ARTICLE	IF	CITATIONS
1	Anvil-profiled penetrating keratoplasty: load resistance evaluation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 319-325.	1.4	10
2	Modeling the load resistance in laser-assisted cornea transplantation. , 2019, , .		0
3	Biomechanical FEM model of the cornea in femtosecond laser assisted keratoplasty. , 2019, , .		0
4	The Use of Femtosecond Laser and Corneal Welding in the Surgery of Keratoconus. <i>Essentials in Ophthalmology</i> , 2017, , 289-295.	0.0	2
5	Three-dimensional mapping of corneal lamellar orientation by means of backward-scattered SHG microscopy. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
6	Laser assisted robotic surgery in cornea transplantation. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
7	Three-dimensional mapping of the orientation of collagen corneal lamellae in healthy and keratoconic human corneas using SHG microscopy. <i>Journal of Biophotonics</i> , 2017, 10, 75-83.	1.1	39
8	A robotic platform for laser welding of corneal tissue. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
9	Confocal microscopy and electrophysiological study of single patient corneal endothelium cell cultures. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
10	ESPRESSO: A novel device for laser-assisted surgery of the anterior eye segment. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2016, 25, 70-78.	0.6	4
11	An “All-laser” Endothelial Transplant. <i>Journal of Visualized Experiments</i> , 2015, , e52939.	0.2	5
12	Deep stroma investigation by confocal microscopy. , 2015, , .		1
13	Bifocal refractive corneal inlay implantation to improve near vision in emmetropic presbyopic patients. <i>Journal of Cataract and Refractive Surgery</i> , 2015, 41, 1962-1972.	0.7	28
14	Improving Boston Type 1 Keratoprosthesis Procedure: One-Touch Femtosecond-Assisted Preparation and Centration of Donor Carrier Tissue. <i>European Journal of Ophthalmology</i> , 2014, 24, 191-195.	0.7	0
15	Femtosecond laser assisted design of sutureless intrastromal graft as an alternative to partial thickness keratoplasty. , 2014, , .		0
16	Robotic console for ocular surgery: a preliminary study. , 2014, , .		1
17	Morphologic study of the cornea by in vivo confocal microscopy and optical coherence tomography after bifocal refractive corneal inlay implantation. <i>Journal of Cataract and Refractive Surgery</i> , 2014, 40, 545-557.	0.7	14
18	Laser-Assisted Penetrating Keratoplasty: 1-Year Results in Patients Using a Laser-Welded Anvil-Profiled Graft. <i>American Journal of Ophthalmology</i> , 2014, 158, 664-670.e2.	1.7	23

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19	Laser welding in penetrating keratoplasty and cataract surgery in pediatric patients: Early results. Journal of Cataract and Refractive Surgery, 2013, 39, 1829-1834.	0.7	26
20	Laser welding in penetrating keratoplasty and cataract surgery of pediatric patients: early results. Proceedings of SPIE, 2013, , .	0.8	0
21	"All-laser" endothelial corneal transplant in human patients. , 2012, , .		1
22	Sutureless closure of scleral wounds in animal models by the use of laser welded biocompatible patches. , 2011, , .		1
23	Laser welding of chitosan-GNRs films for the closure of a capsulorhexis. , 2011, , .		1
24	Long term observation of low-power diode laser welding after penetrating keratoplasty in human patients. Proceedings of SPIE, 2010, , .	0.8	1
25	Photothermal effects in connective tissues mediated by laser-activated gold nanorods. Nanomedicine: Nanotechnology, Biology, and Medicine, 2009, 5, 143-151.	1.7	83
26	Laser tissue welding in ophthalmic surgery. Journal of Biophotonics, 2008, 1, 331-342.	1.1	56
27	Gold nanorods as exogenous chromophores in the welding of ocular tissues. , 2008, , .		3
28	Combining femtosecond laser ablation and diode laser welding in lamellar and endothelial corneal transplants. , 2008, , .		4
29	A New Technique for the Closure of the Lens Capsule by Laser Welding. Ophthalmic Surgery Lasers and Imaging Retina, 2008, 39, 260-261.	0.4	13
30	Microscopic analysis of structural changes in diode-laser-welded corneal stroma. , 2007, , .		1
31	Temperature control during diode laser welding in a human cornea. , 2007, , .		2
32	Laser-assisted corneal welding in cataract surgery: Retrospective study. Journal of Cataract and Refractive Surgery, 2007, 33, 1608-1612.	0.7	38
33	Experimental and model analysis on the temperature dynamics during diode laser welding of the cornea. Journal of Biomedical Optics, 2007, 12, 014031.	1.4	44
34	Microscopic characterization of collagen modifications induced by low-temperature diode laser welding of corneal tissue. Lasers in Surgery and Medicine, 2007, 39, 597-604.	1.1	41
35	Preliminary study on the closure of the lens capsule by laser welding. , 2006, , .		4
36	Healing process study of laser-welded corneal tissue by multispectral imaging autofluorescence microscopy (MIAM). , 2006, , .		0

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37	Laser welding of biological tissue: experimental studies in ophthalmology. , 2006, , .		2
38	Experimental study on the healing process following laser welding of the cornea. Journal of Biomedical Optics, 2005, 10, 024004.	1.4	39
39	Diode laser welding for cornea suturing: an experimental study of the repair process. , 2004, , .		6
40	Carbonic Anhydrase Inhibitors: Topically Acting Antiglaucoma Sulfonamides Incorporating Esters and Amides of 3- and 4-Carboxybenzamide.. ChemInform, 2003, 34, no.	0.1	0
41	Carbonic anhydrase inhibitors: Topically acting antiglaucoma sulfonamides incorporating esters and amides of 3- and 4-carboxybenzamide. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2867-2873.	1.0	31
42	Carbonic Anhydrase Inhibitors With Strong Topical Antiglaucoma Properties Incorporating a 4-(2-amino-pyrimidin-4-yl-amino)-benzenesulfonamide Scaffold. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 9-18.	2.5	14
43	Carbonic Anhydrase Inhibitors: Synthesis of Water Soluble Sulfonamides Incorporating a 4-sulfamoylphenylmethylthiourea Scaffold, with Potent Intraocular Pressure Lowering Properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2002, 17, 333-343.	2.5	33
44	Carbonic Anhydrase Inhibitors. A General Approach for the Preparation of Water-Soluble Sulfonamides Incorporating Polyamino~Polycarboxylate Tails and of Their Metal Complexes Possessing Long-Lasting, Topical Intraocular Pressure-Lowering Properties. Journal of Medicinal Chemistry, 2002, 45, 1466-1476.	2.9	138
45	Carbonic Anhydrase Inhibitors: Synthesis and Inhibition Against Isozymes I, II and IV of Topically Acting Antiglaucoma Sulfonamides Incorporating <i>cis</i> -5-Norbornene-endo-3-Carboxy-2-Carboxamido Moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 113-123.	0.5	8
46	First application of laser welding in clinical transplantation of the cornea. , 2001, , .		18
47	Carbonic anhydrase inhibitors: synthesis of sulfonamides incorporating dtpa tails and of their zinc complexes with powerful topical antiglaucoma properties. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 575-582.	1.0	112
48	Carbonic anhydrase inhibitors: 4-sulfamoyl-benzenecarboxamides and 4-chloro-3-sulfamoyl-benzenecarboxamides with strong topical antiglaucoma properties. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1787-1791.	1.0	59
49	Carbonic anhydrase inhibitors: sulfonamides incorporating furan-, thiophene- and pyrrole-carboxamido groups possess strong topical intraocular pressure lowering properties as aqueous suspensions. Bioorganic and Medicinal Chemistry, 2000, 8, 2145-2155.	1.4	67
50	Carbonic Anhydrase Inhibitors. Metal Complexes of 5-(2-Chlorophenyl)-1, 3, 4-Thiadiazole-2-Sulfonamide with Topical Intraocular Pressure Lowering Properties: The Influence of Metal Ions Upon the Pharmacological Activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2000, 15, 185-200.	0.5	16
51	Carbonic Anhydrase Inhibitors: A Water-Soluble 4-Sulfamoylphenylthioureas as Topical Intraocular Pressure-Lowering Agents with Long-Lasting Effects. Journal of Medicinal Chemistry, 2000, 43, 4884-4892.	2.9	143
52	Carbonic Anhydrase Inhibitors: Perfluoroalkyl/Aryl-Substituted Derivatives of Aromatic/Heterocyclic Sulfonamides as Topical Intraocular Pressure-Lowering Agents with Prolonged Duration of Action. Journal of Medicinal Chemistry, 2000, 43, 4542-4551.	2.9	139
53	Carbonic Anhydrase Inhibitors Part 721 Synthesis and Antiglaucoma Properties of Metal Complexes of p-Fluorobenzamide. Metal-Based Drugs, 1999, 6, 67-73.	3.8	10
54	Carbonic Anhydrase Inhibitors. Synthesis of Topically Effective Intraocular Pressure Lowering Agents Derived from 5-(1-Amino-Alkylcarboxamido)-1,3,4-Thia-Diazole-2-Sulfonamide. Journal of Enzyme Inhibition and Medicinal Chemistry, 1999, 15, 23-46.	0.5	38

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55	Carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 2397-2406.	1.4	808
56	Carbonic anhydrase inhibitors " part 70. Synthesis and ocular pharmacology of a new class of water-soluble, topically effective intraocular pressure lowering agents derived from nicotinic acid and aromatic/heterocyclic sulfonamides. <i>European Journal of Medicinal Chemistry</i> , 1999, 34, 799-808.	2.6	14
57	Carbonic anhydrase inhibitors. Part 60##See ref.[1]. The topical intraocular pressure-lowering properties of metal complexes of a heterocyclic sulfonamide: influence of the metal ion upon biological activity. <i>European Journal of Medicinal Chemistry</i> , 1999, 34, 585-595.	2.6	13
58	Carbonic Anhydrase Inhibitors. Synthesis of Water-Soluble, Topically Effective, Intraocular Pressure-Lowering Aromatic/Heterocyclic Sulfonamides Containing Cationic or Anionic Moieties: Is the Tail More Important than the Ring?. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 2641-2650.	2.9	278
59	Carbonic anhydrase inhibitors. Part 71. <i>European Journal of Pharmaceutical Sciences</i> , 1999, 8, 317-328.	1.9	53
60	Carbonic anhydrase inhibitors. Part 79. <i>European Journal of Pharmaceutical Sciences</i> , 1999, 9, 185-199.	1.9	15
61	Carbonic Anhydrase Inhibitors: Synthesis of Water-Soluble, Aminoacyl/Dipeptidyl Sulfonamides Possessing Long-Lasting Intraocular Pressure-Lowering Properties via the Topical Route1. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 3690-3700.	2.9	153
62	Carbonic Anhydrase Inhibitors. Water-Soluble, Topically Effective Intraocular Pressure Lowering Agents Derived from Isonicotinic Acid and Aromatic/Heterocyclic Sulfonamides: Is the Tail More Important than the Ring?. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1999, 14, 457-474.	0.5	31
63	<title>Laser welding to assist penetrating keratoplasty: in vivo studies</title>. , 1998, , .		4
64	Carbonic Anhydrase Inhibitors: Inhibition of Isozymes I, II and IV with N-Hydroxysulfonamides - A Novel Class of Intraocular Pressure Lowering Agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1998, 13, 267-284.	0.5	28
65	<title>Preliminary experiences on diode laser welding in corneal transplantation</title>. , 1996, , .		6