

Andrew J Feola

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,778
citations

331670

21
h-index

330143

37
g-index

58
all docs

58
docs citations

58
times ranked

1497
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue mechanics, animal models, and pelvic organ prolapse: A review. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009, 144, S146-S158.	1.1	184
2	Vaginal degeneration following implantation of synthetic mesh with increased stiffness. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2013, 120, 233-243.	2.3	124
3	Deterioration in biomechanical properties of the vagina following implantation of a high stiffness prolapse mesh. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2013, 120, 224-232.	2.3	115
4	Finite Element Modeling of Factors Influencing Optic Nerve Head Deformation Due to Intracranial Pressure. , 2016, 57, 1901.		73
5	Uniaxial biomechanical properties of seven different vaginally implanted meshes for pelvic organ prolapse. <i>International Urogynecology Journal</i> , 2012, 23, 613-620.	1.4	71
6	Effects of Peripapillary Scleral Stiffening on the Deformation of the Lamina Cribrosa. , 2016, 57, 2666.		68
7	Tensile properties of commonly used prolapse meshes. <i>International Urogynecology Journal</i> , 2009, 20, 847-853.	1.4	62
8	Graft-related complications and biaxial tensiometry following experimental vaginal implantation of flat mesh of variable dimensions. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2013, 120, 244-250.	2.3	57
9	Deformation of the Lamina Cribrosa and Optic Nerve Due to Changes in Cerebrospinal Fluid Pressure. , 2017, 58, 2070.		57
10	Impact of Pregnancy and Vaginal Delivery on the Passive and Active Mechanics of the Rat Vagina. <i>Annals of Biomedical Engineering</i> , 2011, 39, 549-558.	2.5	55
11	Characterizing the ex vivo textile and structural properties of synthetic prolapse mesh products. <i>International Urogynecology Journal</i> , 2013, 24, 559-564.	1.4	52
12	Parity negatively impacts vaginal mechanical properties and collagen structure in rhesus macaques. <i>American Journal of Obstetrics and Gynecology</i> , 2010, 203, 595.e1-595.e8.	1.3	40
13	Pregnancy- and delivery-induced biomechanical changes in rat vagina persist postpartum. <i>International Urogynecology Journal</i> , 2010, 21, 1169-1174.	1.4	39
14	Host reaction to vaginally inserted collagen containing polypropylene implants in sheep. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 212, 474.e1-474.e8.	1.3	38
15	Mechanical biocompatibility of prosthetic meshes: A comprehensive protocol for mechanical characterization. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 42-58.	3.1	37
16	The Impact of Choroidal Swelling on Optic Nerve Head Deformation. , 2018, 59, 4172.		37
17	The impact of prolapse mesh on vaginal smooth muscle structure and function. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2016, 123, 1076-1085.	2.3	36
18	Regional Differences in Rat Vaginal Smooth Muscle Contractility and Morphology. <i>Reproductive Sciences</i> , 2013, 20, 382-390.	2.5	30

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19	Long-Term Functional and Structural Consequences of Primary Blast Overpressure to the Eye. Journal of Neurotrauma, 2018, 35, 2104-2116.	3.4	30
20	Changes in the rheological behavior of the vagina in women with pelvic organ prolapse. International Urogynecology Journal, 2013, 24, 1221-1227.	1.4	28
21	Comparative Anatomy of the Ovine and Female Pelvis. Gynecologic and Obstetric Investigation, 2017, 82, 582-591.	1.6	27
22	Novel Detection and Restorative Levodopa Treatment for Preclinical Diabetic Retinopathy. Diabetes, 2020, 69, 1518-1527.	0.6	27
23	Retinal Deficits Precede Cognitive and Motor Deficits in a Rat Model of Type II Diabetes. , 2019, 60, 123.		26
24	The impact of ocular hemodynamics and intracranial pressure on intraocular pressure during acute gravitational changes. Journal of Applied Physiology, 2017, 123, 352-363.	2.5	25
25	AxoNet: A deep learning-based tool to count retinal ganglion cell axons. Scientific Reports, 2020, 10, 8034.	3.3	25
26	Collagen scaffold: a treatment for simulated maternal birth injury in the rat model. American Journal of Obstetrics and Gynecology, 2010, 202, 589.e1-589.e8.	1.3	23
27	Characterization of the mechanical behavior of the optic nerve sheath and its role in spaceflight-induced ophthalmic changes. Biomechanics and Modeling in Mechanobiology, 2017, 16, 33-43.	2.8	23
28	First delivery and ovariectomy affect biomechanical and structural properties of the vagina in the ovine model. International Urogynecology Journal, 2019, 30, 455-464.	1.4	22
29	Prosthetic Meshes for Repair of Hernia and Pelvic Organ Prolapse: Comparison of Biomechanical Properties. Materials, 2015, 8, 2794-2808.	2.9	21
30	Mesh contraction: in vivo documentation of changes in apparent surface area utilizing meshes visible on magnetic resonance imaging in the rabbit abdominal wall model. International Urogynecology Journal, 2014, 25, 737-743.	1.4	20
31	Contribution of biomechanics to management of ligament and tendon injuries. MCB Molecular and Cellular Biomechanics, 2008, 5, 49-68.	0.7	20
32	Menopause exacerbates visual dysfunction in experimental glaucoma. Experimental Eye Research, 2019, 186, 107706.	2.6	19
33	Biomechanical Properties of the Pelvic Floor and its Relation to Pelvic Floor Disorders. European Urology Supplements, 2018, 17, 80-90.	0.1	18
34	Measurement of Ocular Compliance Using iPerfusion. Frontiers in Bioengineering and Biotechnology, 2019, 7, 276.	4.1	18
35	Cross-linked xenogenic collagen implantation in the sheep model for vaginal surgery. Gynecological Surgery, 2015, 12, 113-122.	0.9	17
36	Biomechanical properties of the rat sclera obtained with inverse finite element modeling. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2195-2212.	2.8	17

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37	Age and Menopause Effects on Ocular Compliance and Aqueous Outflow. , 2020, 61, 16.		17
38	Three-dimensional analysis of implanted magnetic-resonance-visible meshes. International Urogynecology Journal, 2015, 26, 1459-1465.	1.4	16
39	THE EFFECT OF PREGNANCY AND POSTPARTUM RECOVERY ON THE VISCOELASTIC BEHAVIOR OF THE RAT CERVIX. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250009.	0.7	15
40	The need for preclinical research on pelvic floor reconstruction. BJOG: an International Journal of Obstetrics and Gynaecology, 2013, 120, 141-143.	2.3	15
41	Varying degrees of nonlinear mechanical behavior arising from geometric differences of urogynecological meshes. Journal of Biomechanics, 2014, 47, 2584-2589.	2.1	15
42	Assessment of Visual and Retinal Function Following In Vivo Genipin-Induced Scleral Crosslinking. Translational Vision Science and Technology, 2020, 9, 8.	2.2	13
43	Factors affecting optic nerve head biomechanics in a rat model of glaucoma. Journal of the Royal Society Interface, 2020, 17, 20190695.	3.4	12
44	Immediate postoperative changes in synthetic meshes – In vivo measurements. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 228-235.	3.1	11
45	Initiation of L-DOPA Treatment After Detection of Diabetes-Induced Retinal Dysfunction Reverses Retinopathy and Provides Neuroprotection in Rats. Translational Vision Science and Technology, 2021, 10, 8.	2.2	10
46	In vivo documentation of shape and position changes of MRI-visible mesh placed in rectovaginal septum. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 379-389.	3.1	9
47	Using retinal function to define ischemic exclusion criteria for animal models of glaucoma. Experimental Eye Research, 2021, 202, 108354.	2.6	9
48	High-frequency micro-ultrasound: A novel method to assess external urethral sphincter function in rats following simulated birth injury. Neurourology and Urodynamics, 2015, 34, 264-269.	1.5	8
49	Transvaginal Mesh Insertion in the Ovine Model. Journal of Visualized Experiments, 2017, , .	0.3	8
50	Behavioral Assessment of Visual Function via Optomotor Response and Cognitive Function via Y-Maze in Diabetic Rats. Journal of Visualized Experiments, 2020, , .	0.3	8
51	Evidence for Menopause as a Sex-Specific Risk Factor for Glaucoma. Cellular and Molecular Neurobiology, 2023, 43, 79-97.	3.3	8
52	Biomechanics of the rat vagina during pregnancy and postpartum: a 3-dimensional ultrasound approach. International Urogynecology Journal, 2014, 25, 915-920.	1.4	6
53	Dependence of visual and cognitive outcomes on animal holder configuration in a rodent model of blast overpressure exposure. Vision Research, 2021, 188, 162-173.	1.4	5
54	Ovariectomy worsens visual function after mild optic nerve crush in rodents. Experimental Eye Research, 2021, 202, 108333.	2.6	4

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55	In vivo Structural Assessments of Ocular Disease in Rodent Models using Optical Coherence Tomography. Journal of Visualized Experiments, 2020, , .	0.3	3
56	Evaluation of Spatially Targeted Scleral Stiffening on Neuroprotection in a Rat Model of Glaucoma. Translational Vision Science and Technology, 2022, 11, 7.	2.2	3
57	A Potential Role of Acute Choroidal Expansion in Nonarteritic Anterior Ischemic Optic Neuropathy. , 2022, 63, 23.		2
58	27 ULTRASOUND, SPOT TEST, BLADDER LEAKAGE CAPACITY, AND TIME TO LEAKAGE TO DETERMINE THE FUNCTIONAL ALTERATION IN DIFFERENT RAT MODELS OF STRESS URINARY INCONTINENCE. Journal of Urology, 2013, 189, .	0.4	0