

Steven D Abramowitch

List of Publications by Year in descending order

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43
papers

1,046
citations

516710

16
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32
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all docs

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docs citations

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times ranked

986
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	An Improved Method to Analyze the Stress Relaxation of Ligaments Following a Finite Ramp Time Based on the Quasi-Linear Viscoelastic Theory. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 92-97.	1.3	135
3	Host response to synthetic mesh in women with mesh complications. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 215, 206.e1-206.e8.	1.3	99
4	Characterization of the host inflammatory response following implantation of prolapse mesh in rhesus macaque. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 213, 668.e1-668.e10.	1.3	65
5	An Evaluation of the Quasi-Linear Viscoelastic Properties of the Healing Medial Collateral Ligament in a Goat Model. <i>Annals of Biomedical Engineering</i> , 2004, 32, 329-335.	2.5	59
6	Impact of prolapse meshes on the metabolism of vaginal extracellular matrix in rhesus macaque. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 212, 174.e1-174.e7.	1.3	53
7	A comparison of the quasi-static mechanical and non-linear viscoelastic properties of the human semitendinosus and gracilis tendons. <i>Clinical Biomechanics</i> , 2010, 25, 325-331.	1.2	48
8	Textile properties of synthetic prolapse mesh in response to uniaxial loading. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 215, 326.e1-326.e9.	1.3	37
9	Extracellular matrix regenerative graft attenuates the negative impact of polypropylene prolapse mesh on vagina in rhesus macaque. <i>American Journal of Obstetrics and Gynecology</i> , 2017, 216, 153.e1-153.e9.	1.3	30
10	A discrete spectral analysis for determining quasi-linear viscoelastic properties of biological materials. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150707.	3.4	29
11	The impact of boundary conditions on surface curvature of polypropylene mesh in response to uniaxial loading. <i>Journal of Biomechanics</i> , 2015, 48, 1566-1574.	2.1	24
12	Discrete quasi-linear viscoelastic damping analysis of connective tissues, and the biomechanics of stretching. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 193-202.	3.1	23
13	Impact of parity on ewe vaginal mechanical properties relative to the nonhuman primate and rodent. <i>International Urogynecology Journal</i> , 2016, 27, 1255-1263.	1.4	21
14	Pelvic floor shape variations during pregnancy and after vaginal delivery. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 194, 105516.	4.7	21
15	Towards rebuilding vaginal support utilizing an extracellular matrix bioscaffold. <i>Acta Biomaterialia</i> , 2017, 57, 324-333.	8.3	20
16	Mesh induced fibrosis: The protective role of T regulatory cells. <i>Acta Biomaterialia</i> , 2019, 96, 203-210.	8.3	20
17	Varying degrees of nonlinear mechanical behavior arising from geometric differences of urogynecological meshes. <i>Journal of Biomechanics</i> , 2014, 47, 2584-2589.	2.1	15
18	Preventing Mesh Pore Collapse by Designing Mesh Pores With Auxetic Geometries: A Comprehensive Evaluation Via Computational Modeling. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	15

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19	Impact of polypropylene prolapse mesh on vaginal smooth muscle in rhesus macaque. American Journal of Obstetrics and Gynecology, 2019, 221, 330.e1-330.e9.	1.3	14
20	Inflation and rupture of vaginal tissue. Interface Focus, 2019, 9, 20190029.	3.0	13
21	Finite Element Modeling in Female Pelvic Floor Medicine: a Literature Review. Current Obstetrics and Gynecology Reports, 2015, 4, 125-131.	0.8	11
22	Swine Vagina Under Planar Biaxial Loads: An Investigation of Large Deformations and Tears. Journal of Biomechanical Engineering, 2019, 141, .	1.3	11
23	Strains induced in the vagina by smooth muscle contractions. Acta Biomaterialia, 2021, 129, 178-187.	8.3	11
24	Descent and hypermobility of the rectum in women with obstructed defecation symptoms. International Urogynecology Journal, 2020, 31, 337-349.	1.4	10
25	Novel simulations to determine the impact of superficial perineal structures on vaginal delivery. Interface Focus, 2019, 9, 20190011.	3.0	9
26	Defining mechanisms of recurrence following apical prolapse repair based on imaging criteria. American Journal of Obstetrics and Gynecology, 2021, 225, 506.e1-506.e28.	1.3	9
27	Deformation of Transvaginal Mesh in Response to Multiaxial Loading. Journal of Biomechanical Engineering, 2019, 141, .	1.3	8
28	T regulatory cells and TGF- β 1: Predictors of the host response in mesh complications. Acta Biomaterialia, 2020, 115, 127-135.	8.3	7
29	Urethral support in female urinary continence part 2: a computational, biomechanical analysis of Valsalva. International Urogynecology Journal, 2022, 33, 551-561.	1.4	7
30	Urethral support in female urinary continence part 1: dynamic measurements of urethral shape and motion. International Urogynecology Journal, 2022, 33, 541-550.	1.4	6
31	Smooth Muscle Organization and Nerves in the Rat Vagina: A First Look Using Tissue Clearing and Immunolabeling. Annals of Biomedical Engineering, 2022, 50, 440-451.	2.5	5
32	The role of conventional pelvic floor reconstructive surgeries in obstructed defecation symptoms change: CARE and OPTIMAL trials sub-analysis of 2-year follow-up data. International Urogynecology Journal, 2020, 31, 1325-1334.	1.4	4
33	Methods for the defining mechanisms of anterior vaginal wall descent (DEMAND) study. International Urogynecology Journal, 2021, 32, 809-818.	1.4	4
34	Transvaginal sacrospinous ligament suture rectopexy for obstructed defecation symptoms: 1-year outcomes. International Urogynecology Journal, 2020, 32, 3045-3052.	1.4	3
35	Obstructed Defecation Symptom Severity and Degree of Rectal Hypermobility and Folding Detected by Dynamic Ultrasound. Ultrasound Quarterly, 2021, 37, 229-236.	0.8	3
36	The establishment of a 3D anatomical coordinate system for defining vaginal axis and spatial position. Computer Methods and Programs in Biomedicine, 2021, 208, 106175.	4.7	3

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37	Motion of the vaginal apex during strain and defecation. International Urogynecology Journal, 2020, 31, 391-400.	1.4	2
38	Comparison of 2 single incision slings on the vagina in an ovine model. American Journal of Obstetrics and Gynecology, 2021, 224, 78.e1-78.e7.	1.3	2
39	Statistical shape modeling of the pelvic floor to evaluate women with obstructed defecation symptoms. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 122-130.	1.6	2
40	Novel Application of Photogrammetry to Quantify Fascicle Orientations of Female Cadaveric Pelvic Floor Muscles. Annals of Biomedical Engineering, 2021, 49, 1888-1899.	2.5	2
41	3D quantitative analysis of normal clitoral anatomy in nulliparous women by MRI. International Urogynecology Journal, 2022, 33, 1649-1657.	1.4	2
42	The Assumption of a Negligible Preload on the Determination of Viscoelastic Properties Based on the Quasi-linear Viscoelastic (QLV) Theory. , 2007, , .		0
43	Reproductive biomechanics: Innovations and challenges. Journal of Biomechanics, 2015, 48, 1509-1510.	2.1	0