

Sevan Hopyan

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,171
citations

257450

24
h-index

243625

44
g-index

63
all docs

63
docs citations

63
times ranked

2964
citing authors

#	ARTICLE	IF	CITATIONS
1	Live imaging YAP signalling in mouse embryo development. <i>Open Biology</i> , 2022, 12, 210335.	3.6	7
2	Patterning the embryonic pulmonary mesenchyme. <i>Science</i> , 2022, 25, 103838.	4.1	13
3	Non-rhabdomyosarcoma soft tissue sarcomas diagnosed in patients at a young age. An overview of clinical, pathological, and molecular findings. <i>Pediatric Blood and Cancer</i> , 2021, 68, e29022.	1.5	0
4	Existing and Potential Applications of Elastography for Measuring the Viscoelasticity of Biological Tissues In Vivo. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	6
5	Reconstruction for bone tumours of the shoulder and humerus in children and adolescents. <i>Journal of Children's Orthopaedics</i> , 2021, 15, 358-365.	1.1	2
6	IRX3/5 regulate mitotic chromatid segregation and limb bud shape. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	4
7	Radiological Assessment and Outcome of Local Disease Progression after Neoadjuvant Chemotherapy in Children and Adolescents with Localized Osteosarcoma. <i>Journal of Clinical Medicine</i> , 2020, 9, 4070.	2.4	7
8	Hedgehog-Activated Fat4 and PCP Pathways Mediate Mesenchymal Cell Clustering and Villus Formation in Gut Development. <i>Developmental Cell</i> , 2020, 52, 647-658.e6.	7.0	39
9	Spatial mapping of tissue properties in vivo reveals a 3D stiffness gradient in the mouse limb bud. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4781-4791.	7.1	60
10	Magnetic Micromanipulation for <i>In Vivo</i> Measurement of Stiffness Heterogeneity and Anisotropy in the Mouse Mandibular Arch. <i>Research</i> , 2020, 2020, 7914074.	5.7	13
11	Elbow flexion contractures in brachial plexus birth injury: function and appearance related factors. <i>Disability and Rehabilitation</i> , 2019, 41, 2648-2652.	1.8	10
12	Usefulness of diffusion-weighted MRI in the initial assessment of osseous sarcomas in children and adolescents. <i>Pediatric Radiology</i> , 2019, 49, 1201-1208.	2.0	10
13	Prevalence and etiology of elbow flexion contractures in brachial plexus birth injury: A scoping review. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2019, 12, 75-86.	0.5	9
14	Effectiveness of non-surgical and surgical interventions for elbow flexion contractures in brachial plexus birth injury: A systematic review. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2019, 12, 87-100.	0.5	3
15	Oscillatory cortical forces promote three dimensional cell intercalations that shape the murine mandibular arch. <i>Nature Communications</i> , 2019, 10, 1703.	12.8	52
16	The Pediatric Toronto Extremity Salvage Score (pTESS): Validation of a Self-reported Functional Outcomes Tool for Children with Extremity Tumors. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 2127-2141.	1.5	10
17	The Iroquois homeobox proteins IRX3 and IRX5 have distinct roles in Wilms tumour development and human nephrogenesis. <i>Journal of Pathology</i> , 2019, 247, 86-98.	4.5	20
18	Osteofibrous Dysplasia of the Tibia in Children: Outcome Without Resection. <i>Journal of Pediatric Orthopaedics</i> , 2019, 39, e614-e621.	1.2	17

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19	Cell ingression: Relevance to limb development and for adaptive evolution. <i>Genesis</i> , 2018, 56, e23086.	1.6	4
20	Concomitant Administration of High-dose Methotrexate and Low-dose Aspirin Without Any Delay in Methotrexate Clearance in a Patient With Osteosarcoma: A Case Report and Review of the Literature. <i>Journal of Pediatric Hematology/Oncology</i> , 2018, 40, e392-e393.	0.6	1
21	Aggressive embryonal rhabdomyosarcoma in a 3-month-old boy: A clinical and molecular analysis. <i>Pediatric Hematology and Oncology</i> , 2018, 35, 407-414.	0.8	0
22	Characterizing Inner Pressure and Stiffness of Trophoblast and Inner Cell Mass of Blastocysts. <i>Biophysical Journal</i> , 2018, 115, 2443-2450.	0.5	35
23	Mechanical stability of the cell nucleus: roles played by the cytoskeleton in nuclear deformation and strain recovery. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	64
24	Genetic interaction between Gli3 and Ezh2 during limb pattern formation. <i>Mechanisms of Development</i> , 2018, 151, 30-36.	1.7	8
25	Cell and Tissue Scale Forces Coregulate Fgfr2 -Dependent Tetrads and Rosettes in the Mouse Embryo. <i>Biophysical Journal</i> , 2017, 112, 2209-2218.	0.5	15
26	The two domain hypothesis of limb prepattern and its relevance to congenital limb anomalies. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2017, 6, e270.	5.9	9
27	Forearm Pronation Osteotomy for Supination Contracture Secondary to Obstetrical Brachial Plexus Palsy: A Retrospective Cohort Study. <i>Journal of Pediatric Orthopaedics</i> , 2017, 37, e357-e363.	1.2	6
28	Cover Image, Volume 6, Issue 4. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2017, 6, e285.	5.9	0
29	Structural components of nuclear integrity with gene regulatory potential. <i>Current Opinion in Cell Biology</i> , 2017, 48, 63-71.	5.4	3
30	Biophysical regulation of early limb bud morphogenesis. <i>Developmental Biology</i> , 2017, 429, 429-433.	2.0	12
31	Tibial hemimelia associated with GLI3 truncation. <i>Journal of Human Genetics</i> , 2016, 61, 443-446.	2.3	15
32	Construct validity and reliability of a real-time multidimensional smartphone app to assess pain in children and adolescents with cancer. <i>Pain</i> , 2015, 156, 2607-2615.	4.2	85
33	Automated micro-aspiration of mouse embryo limb bud tissue. , 2015, , .		2
34	Anisotropic stress orients remodelling of mammalian limb bud ectoderm. <i>Nature Cell Biology</i> , 2015, 17, 569-579.	10.3	102
35	Can Neonatal Pelvic Osteotomies Permanently Change Pelvic Shape in Patients with Exstrophy?. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e137.	3.0	4
36	Congenital infantile fibrosarcoma: review of imaging features. <i>Pediatric Radiology</i> , 2014, 44, 1124-1129.	2.0	45

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37	A Switch from Low to High Shh Activity Regulates Establishment of Limb Progenitors and Signaling Centers. <i>Developmental Cell</i> , 2014, 29, 241-249.	7.0	44
38	<i>In Situ</i> Mechanical Characterization of the Cell Nucleus by Atomic Force Microscopy. <i>ACS Nano</i> , 2014, 8, 3821-3828.	14.6	176
39	Formation of Proximal and Anterior Limb Skeleton Requires Early Function of <i>Irx3</i> and <i>Irx5</i> and Is Negatively Regulated by Shh Signaling. <i>Developmental Cell</i> , 2014, 29, 233-240.	7.0	95
40	Long-Term Outcomes following Lower Extremity Sarcoma Resection and Reconstruction with Vascularized Fibula Flaps in Children. <i>Plastic and Reconstructive Surgery</i> , 2014, 134, 808-820.	1.4	28
41	Bipolar latissimus transfer for restoration of elbow flexion. <i>Journal of Orthopaedics</i> , 2013, 10, 133-138.	1.3	17
42	Combined Glenoid Anteversion Osteotomy and Tendon Transfers for Brachial Plexus Birth Palsy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 2145-2152.	3.0	38
43	Combined Glenoid Anteversion Osteotomy and Tendon Transfers for Brachial Plexus Birth Palsy. <i>JBJS Essential Surgical Techniques</i> , 2012, 2, e23.	0.8	3
44	Ischioplasty for Femoroischial Impingement. <i>JBJS Case Connector</i> , 2012, 2, e51.	0.3	22
45	Percutaneous Curettage and Suction for Pediatric Extremity Aneurysmal Bone Cysts. <i>Journal of Pediatric Orthopaedics</i> , 2012, 32, 842-847.	1.2	10
46	Unicameral Bone Cysts. <i>Journal of Pediatric Orthopaedics</i> , 2011, 31, 50-55.	1.2	72
47	Budding behaviors: Growth of the limb as a model of morphogenesis. <i>Developmental Dynamics</i> , 2011, 240, 1054-1062.	1.8	46
48	<i>Ezh2</i> regulates anteroposterior axis specification and proximodistal axis elongation in the developing limb. <i>Development (Cambridge)</i> , 2011, 138, 3759-3767.	2.5	60
49	Clinical outcome of children and adults with localized Ewing sarcoma. <i>Cancer</i> , 2010, 116, 3189-3194.	4.1	96
50	Oriented cell motility and division underlie early limb bud morphogenesis. <i>Development (Cambridge)</i> , 2010, 137, 2551-2558.	2.5	109
51	Surgical Hip Dislocation for Removal of Intraarticular Exostoses. <i>Journal of Pediatric Orthopaedics</i> , 2009, 29, 327-330.	1.2	20
52	Plasticity of proximal to distal cell fate in the mammalian limb bud. <i>Developmental Biology</i> , 2008, 313, 225-233.	2.0	14
53	Can chronic recurrent multifocal osteomyelitis predispose to lymphoma of bone? A case report. <i>Journal of Pediatric Orthopaedics Part B</i> , 2008, 17, 329-332.	0.6	13
54	PTHrP regulates growth plate chondrocyte differentiation and proliferation in a <i>Gli3</i> dependent manner utilizing hedgehog ligand dependent and independent mechanisms. <i>Developmental Biology</i> , 2007, 305, 28-39.	2.0	52

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55	Constitutive Hedgehog Signaling in Chondrosarcoma Up-Regulates Tumor Cell Proliferation. American Journal of Pathology, 2006, 168, 321-330.	3.8	141
56	Function and Upright Time Following Limb Salvage, Amputation, and Rotationplasty for Pediatric Sarcoma of Bone. Journal of Pediatric Orthopaedics, 2006, 26, 405-408.	1.2	91
57	Dysregulation of hedgehog signalling predisposes to synovial chondromatosis. Journal of Pathology, 2005, 206, 143-150.	4.5	42
58	A mutant PTH/PTHrP type I receptor in enchondromatosis. Nature Genetics, 2002, 30, 306-310.	21.4	240
59	Expression of osteocalcin and its transcriptional regulator core-binding factor alpha 1 and MSX2 in osteoid-forming tumours. Journal of Orthopaedic Research, 1999, 17, 633-638.	2.3	42
60	Musculoskeletal tumours. , 0, , 186-206.		0
61	Oscillatory cortical forces promote three dimensional mesenchymal cell intercalations to shape the mandibular arch. SSRN Electronic Journal, 0, , .	0.4	1