

# 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	A mutant PTH/PTHrP type I receptor in enchondromatosis. <i>Nature Genetics</i> , 2002, 30, 306-310.	21.4	240
2	<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
3	Constitutive Hedgehog Signaling in Chondrosarcoma Up-Regulates Tumor Cell Proliferation. <i>American Journal of Pathology</i> , 2006, 168, 321-330.	3.8	141
4	Oriented cell motility and division underlie early limb bud morphogenesis. <i>Development (Cambridge)</i> , 2010, 137, 2551-2558.	2.5	109
5	Anisotropic stress orients remodelling of mammalian limb bud ectoderm. <i>Nature Cell Biology</i> , 2015, 17, 569-579.	10.3	102
6	Clinical outcome of children and adults with localized Ewing sarcoma. <i>Cancer</i> , 2010, 116, 3189-3194.	4.1	96
7	Formation of Proximal and Anterior Limb Skeleton Requires Early Function of <i>Ir3</i> and <i>Ir5</i> and Is Negatively Regulated by <i>Shh</i> Signaling. <i>Developmental Cell</i> , 2014, 29, 233-240.	7.0	95
8	Function and Upright Time Following Limb Salvage, Amputation, and Rotationplasty for Pediatric Sarcoma of Bone. <i>Journal of Pediatric Orthopaedics</i> , 2006, 26, 405-408.	1.2	91
9	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
10	Unicameral Bone Cysts. <i>Journal of Pediatric Orthopaedics</i> , 2011, 31, 50-55.	1.2	72
11	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
12	<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
13	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
14	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
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	Budding behaviors: Growth of the limb as a model of morphogenesis. <i>Developmental Dynamics</i> , 2011, 240, 1054-1062.	1.8	46
17	Congenital infantile fibrosarcoma: review of imaging features. <i>Pediatric Radiology</i> , 2014, 44, 1124-1129.	2.0	45
18	A Switch from Low to High <i>Shh</i> Activity Regulates Establishment of Limb Progenitors and Signaling Centers. <i>Developmental Cell</i> , 2014, 29, 241-249.	7.0	44

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19	Expression of osteocalcin and its transcriptional regulators core-binding factor alpha 1 and MSX2 in osteoid-forming tumours. <i>Journal of Orthopaedic Research</i> , 1999, 17, 633-638.	2.3	42
20	Dysregulation of hedgehog signalling predisposes to synovial chondromatosis. <i>Journal of Pathology</i> , 2005, 206, 143-150.	4.5	42
21	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
22	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
23	Characterizing Inner Pressure and Stiffness of Trophoblast and Inner Cell Mass of Blastocysts. <i>Biophysical Journal</i> , 2018, 115, 2443-2450.	0.5	35
24	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
25	Ischioplasty for Femoroischiol Impingement. <i>JBS Case Connector</i> , 2012, 2, e51.	0.3	22
26	Surgical Hip Dislocation for Removal of Intraarticular Exostoses. <i>Journal of Pediatric Orthopaedics</i> , 2009, 29, 327-330.	1.2	20
27	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
28	Bipolar latissimus transfer for restoration of elbow flexion. <i>Journal of Orthopaedics</i> , 2013, 10, 133-138.	1.3	17
29	Osteofibrous Dysplasia of the Tibia in Children: Outcome Without Resection. <i>Journal of Pediatric Orthopaedics</i> , 2019, 39, e614-e621.	1.2	17
30	Tibial hemimelia associated with GLI3 truncation. <i>Journal of Human Genetics</i> , 2016, 61, 443-446.	2.3	15
31	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
32	Plasticity of proximal to distal cell fate in the mammalian limb bud. <i>Developmental Biology</i> , 2008, 313, 225-233.	2.0	14
33	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
34	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
35	Patterning the embryonic pulmonary mesenchyme. <i>IScience</i> , 2022, 25, 103838.	4.1	13
36	Biophysical regulation of early limb bud morphogenesis. <i>Developmental Biology</i> , 2017, 429, 429-433.	2.0	12

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37	Percutaneous Curettage and Suction for Pediatric Extremity Aneurysmal Bone Cysts. <i>Journal of Pediatric Orthopaedics</i> , 2012, 32, 842-847.	1.2	10
38	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
39	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
40	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
41	The two domain hypothesis of limb prepatterning and its relevance to congenital limb anomalies. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2017, 6, e270.	5.9	9
42	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
43	Genetic interaction between Gli3 and Ezh2 during limb pattern formation. <i>Mechanisms of Development</i> , 2018, 151, 30-36.	1.7	8
44	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
45	Live imaging YAP signalling in mouse embryo development. <i>Open Biology</i> , 2022, 12, 210335.	3.6	7
46	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
47	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
48	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
49	Cell ingress: Relevance to limb development and for adaptive evolution. <i>Genesis</i> , 2018, 56, e23086.	1.6	4
50	IRX3/5 regulate mitotic chromatid segregation and limb bud shape. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	4
51	Combined Glenoid Anteversion Osteotomy and Tendon Transfers for Brachial Plexus Birth Palsy. <i>JBJS Essential Surgical Techniques</i> , 2012, 2, e23.	0.8	3
52	Structural components of nuclear integrity with gene regulatory potential. <i>Current Opinion in Cell Biology</i> , 2017, 48, 63-71.	5.4	3
53	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
54	Automated micro-aspiration of mouse embryo limb bud tissue. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
55	Reconstruction for bone tumours of the shoulder and humerus in children and adolescents. Journal of Children's Orthopaedics, 2021, 15, 358-365.	1.1	2
56	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. Journal of Pediatric Hematology/Oncology, 2018, 40, e392-e393.	0.6	1
57	Oscillatory cortical forces promote three dimensional mesenchymal cell intercalations to shape the mandibular arch. SSRN Electronic Journal, 0, , .	0.4	1
58	Musculoskeletal tumours. , 0, , 186-206.		0
59	Cover Image, Volume 6, Issue 4. Wiley Interdisciplinary Reviews: Developmental Biology, 2017, 6, e285.	5.9	0
60	Aggressive embryonal rhabdomyosarcoma in a 3-month-old boy: A clinical and molecular analysis. Pediatric Hematology and Oncology, 2018, 35, 407-414.	0.8	0
61	Non-€rhabdomyosarcoma soft tissue sarcomas diagnosed in patients at a young age. An overview of clinical, pathological, and molecular findings. Pediatric Blood and Cancer, 2021, 68, e29022.	1.5	0