

# David J Dunaway

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120  
papers

1,954  
citations

23  
h-index

40  
g-index

125  
ext. papers

2,406  
ext. citations

2.6  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
120	Convolutional mesh autoencoders for the 3-dimensional identification of FGFR-related craniosynostosis.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2230	4.9	2
119	Mechanical and morphological properties of parietal bone in patients with sagittal craniosynostosis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2022</b> , 125, 104929	4.1	0
118	Craniosynostosis <b>2022</b> , 267-282		1
117	Correction of trigonocephaly after endoscopic strip craniectomy with postoperative helmet orthosis therapy: a 3D stereophotogrammetric study.. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2022</b> , 1-10	2.1	
116	Finite element method for the design of implants for temporal hollowing.. <i>JPRAS Open</i> , <b>2022</b> , 32, 18-23	1.2	
115	Growth patterns and shape development of the paediatric mandible - A 3D statistical model.. <i>Bone Reports</i> , <b>2022</b> , 16, 101528	2.6	
114	The 3D skull 0-4 years: A validated, generative, statistical shape model.. <i>Bone Reports</i> , <b>2021</b> , 15, 101154	2.6	1
113	Extracraniofacial anomalies in Treacher Collins syndrome: A multicentre study of 248 patients. <i>International Journal of Oral and Maxillofacial Surgery</i> , <b>2021</b> , 50, 1471-1476	2.9	0
112	Maxillary Changes Following Facial Bipartition - A Three-Dimensional Quantification. <i>Journal of Craniofacial Surgery</i> , <b>2021</b> , 32, 2053-2057	1.2	1
111	Virtual planning in Le Fort III distraction osteogenesis: A case series. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2021</b> , 49, 341-346	3.6	2
110	Statistical shape modelling for the analysis of head shape variations. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2021</b> , 49, 449-455	3.6	2
109	Monobloc Distraction and Facial Bipartition Distraction with External Devices. <i>Clinics in Plastic Surgery</i> , <b>2021</b> , 48, 507-519	3	0
108	Sporting activity after craniosynostosis surgery in children: a source of parental anxiety. <i>Child's Nervous System</i> , <b>2021</b> , 37, 287-290	1.7	1
107	Multiparametric Imaging for Presurgical Planning of Craniopagus Twins: The Experience of Two Tertiary Pediatric Hospitals with Six Sets of Twins. <i>Radiology</i> , <b>2021</b> , 298, 18-27	20.5	2
106	Enhanced neuro-ophthalmologic evaluation to support separation of craniopagus twins. <i>Journal of Surgical Case Reports</i> , <b>2021</b> , 2021, rjaa606	0.6	2
105	Local Soft Tissue and Bone Displacements Following Midfacial Bipartition Distraction in Apert Syndrome - Quantification Using a Semi-Automated Method. <i>Journal of Craniofacial Surgery</i> , <b>2021</b> , 32, 2646-2650	1.2	
104	Validation of an in-silico modelling platform for outcome prediction in spring assisted posterior vault expansion. <i>Clinical Biomechanics</i> , <b>2021</b> , 88, 105424	2.2	1

103	Spring-assisted posterior vault expansion-a single-centre experience of 200 cases. <i>Childs Nervous System</i> , <b>2021</b> , 37, 3189-3197	1.7	1
102	Computational Evaluation of Potential Correction Methods for Unicoronal Craniosynostosis. <i>Journal of Craniofacial Surgery</i> , <b>2020</b> , 31, 692-696	1.2	3
101	Three-dimensional environment and vascularization induce osteogenic maturation of human adipose-derived stem cells comparable to that of bone-derived progenitors. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 1651-1666	6.9	6
100	Correlation of Intracranial Volume With Head Surface Volume in Patients With Multisutural Craniosynostosis. <i>Journal of Craniofacial Surgery</i> , <b>2020</b> , 31, 1445-1448	1.2	0
99	Dental anomalies in craniofacial microsomia: A systematic review. <i>Orthodontics and Craniofacial Research</i> , <b>2020</b> , 23, 16-26	3	4
98	Three-Dimensional Calvarial Growth in Spring-Assisted Cranioplasty for Correction of Sagittal Synostosis. <i>Journal of Craniofacial Surgery</i> , <b>2020</b> , 31, 2084-2087	1.2	1
97	The Science Behind the Springs: Using Biomechanics and Finite Element Modeling to Predict Outcomes in Spring-Assisted Sagittal Synostosis Surgery. <i>Journal of Craniofacial Surgery</i> , <b>2020</b> , 31, 2074-2078	1.2	1
96	Initial UK series of endoscopic suturectomy with postoperative helmeting for craniosynostosis: early report of perioperative experience. <i>British Journal of Neurosurgery</i> , <b>2020</b> , 1-6	1	0
95	Computational modelling of patient specific spring assisted lambdoid craniosynostosis correction. <i>Scientific Reports</i> , <b>2020</b> , 10, 18693	4.9	3
94	A population-specific material model for sagittal craniosynostosis to predict surgical shape outcomes. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2020</b> , 19, 1319-1329	3.8	2
93	A machine learning framework for automated diagnosis and computer-assisted planning in plastic and reconstructive surgery. <i>Scientific Reports</i> , <b>2019</b> , 9, 13597	4.9	26
92	Lack of association of cranial lacunae with intracranial hypertension in children with Crouzon syndrome and Apert syndrome: a 3D morphometric quantitative analysis. <i>Childs Nervous System</i> , <b>2019</b> , 35, 501-507	1.7	3
91	Investigating the cause of late deformity following fronto-orbital remodelling for metopic synostosis using 3D CT imaging. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2019</b> , 47, 170-178	3.6	2
90	Syndromic Craniosynostosis: Complexities of Clinical Care. <i>Molecular Syndromology</i> , <b>2019</b> , 10, 83-97	1.5	18
89	What Are the Characteristics of the Upper Airway in Patients With Craniofacial Microsomia?. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2019</b> , 77, 1869-1881	1.8	7
88	Geometric morphometrics aided by machine learning in craniofacial surgery. <i>Journal of Orthodontics</i> , <b>2019</b> , 46, 81-83	1.6	3
87	ERF-related craniosynostosis: The phenotypic and developmental profile of a new craniosynostosis syndrome. <i>American Journal of Medical Genetics, Part A</i> , <b>2019</b> , 179, 615-627	2.5	17
86	Design and manufacturing of a patient-specific nasal implant for congenital arhinia: Case report. <i>JPRAS Open</i> , <b>2019</b> , 21, 28-34	1.2	4

85	A Novel Medial Canthal Reconstruction Technique in Children With Blepharophimosis Syndrome. <i>Ophthalmic Plastic and Reconstructive Surgery</i> , <b>2019</b> , 35, 506-508	1.4	4
84	Surgical Correction of Craniofacial Microsomia: Evaluation of Interventions in 565 Patients at Three Major Craniofacial Units. <i>Plastic and Reconstructive Surgery</i> , <b>2019</b> , 143, 1467-1476	2.7	6
83	Correcting Exorbitism by Monobloc Frontofacial Advancement in Crouzon-Pfeiffer Syndrome: An Age-Specific, Time-Related, Controlled Study. <i>Plastic and Reconstructive Surgery</i> , <b>2019</b> , 143, 121e-132e	2.7	15
82	Psychosocial well-being of long-term survivors of pediatric head-neck rhabdomyosarcoma. <i>Pediatric Blood and Cancer</i> , <b>2019</b> , 66, e27498	3	5
81	The Role of Bipartition Distraction in the Treatment of Apert Syndrome. <i>Plastic and Reconstructive Surgery</i> , <b>2018</b> , 141, 747-750	2.7	10
80	Spring assisted cranioplasty: A patient specific computational model. <i>Medical Engineering and Physics</i> , <b>2018</b> , 53, 58-65	2.4	15
79	Large Scale 3D Morphable Models. <i>International Journal of Computer Vision</i> , <b>2018</b> , 126, 233-254	10.6	123
78	Proof of Concept Study for the Design, Manufacturing, and Testing of a Patient-Specific Shape Memory Device for Treatment of Unicoronal Craniosynostosis. <i>Journal of Craniofacial Surgery</i> , <b>2018</b> , 29, 45-48	1.2	6
77	Results Following Adoption of a Modified Melbourne Technique of Total Scaphocephaly Correction. <i>Journal of Craniofacial Surgery</i> , <b>2018</b> , 29, 1117-1122	1.2	5
76	A novel soft tissue prediction methodology for orthognathic surgery based on probabilistic finite element modelling. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197209	3.7	23
75	Evaluation of Swallow Function in Patients with Craniofacial Microsomia: A Retrospective Study. <i>Dysphagia</i> , <b>2018</b> , 33, 234-242	3.7	7
74	Using principal component analysis to describe the midfacial deformities in patients with craniofacial microsomia. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2018</b> , 46, 2032-2041	3.6	4
73	Intracranial Volume and Head Circumference in Children with Unoperated Syndromic Craniosynostosis. <i>Plastic and Reconstructive Surgery</i> , <b>2018</b> , 142, 708e-717e	2.7	15
72	Feeding difficulties in craniofacial microsomia: A multicenter retrospective analysis of 755 patients. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2018</b> , 46, 1777-1782	3.6	4
71	Surgical correction of the midface in craniofacial microsomia. Part 1: A systematic review. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2018</b> , 46, 1427-1435	3.6	12
70	Part 2: Is the maxillary canting and its surgical correction in patients with CFM correlated to the mandibular deformity?. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2018</b> , 46, 1436-1440	3.6	5
69	Comparison of three-dimensional scanner systems for craniomaxillofacial imaging. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2017</b> , 70, 441-449	1.7	86
68	Quantitative analysis of fetal facial morphology using 3D ultrasound and statistical shape modeling: a feasibility study. <i>American Journal of Obstetrics and Gynecology</i> , <b>2017</b> , 217, 76.e1-76.e8	6.4	13

67	Quantifying the effect of corrective surgery for trigonocephaly: A non-invasive, non-ionizing method using three-dimensional handheld scanning and statistical shape modelling. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2017</b> , 45, 387-394	3.6	19
66	Facial asymmetry in head and neck rhabdomyosarcoma survivors. <i>Pediatric Blood and Cancer</i> , <b>2017</b> , 64, e26508	3	10
65	Evaluating the Efficacy of Monobloc Distraction in the Crouzon-Pfeiffer Craniofacial Deformity Using Geometric Morphometrics. <i>Plastic and Reconstructive Surgery</i> , <b>2017</b> , 139, 477e-487e	2.7	15
64	Three-dimensional surface scanners compared with standard anthropometric measurements for head shape. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2017</b> , 45, 921-927	3.6	16
63	Ocular Morbidity in the Correction of Orbital Hypertelorism and Dystopia: A 15-Year Experience. <i>Plastic and Reconstructive Surgery</i> , <b>2017</b> , 139, 967-975	2.7	9
62	Spring-Assisted Cranioplasty for the Correction of Nonsyndromic Scaphocephaly: A Quantitative Analysis of 100 Consecutive Cases. <i>Plastic and Reconstructive Surgery</i> , <b>2017</b> , 140, 125-134	2.7	37
61	Intracranial Volume Measurement: A Systematic Review and Comparison of Different Techniques. <i>Journal of Craniofacial Surgery</i> , <b>2017</b> , 28, 1746-1751	1.2	15
60	Assessment of spring cranioplasty biomechanics in sagittal craniosynostosis patients. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2017</b> , 20, 400-409	2.1	17
59	Craniofacial and extracraniofacial anomalies in craniofacial microsomia: a multicenter study of 755 patients. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2017</b> , 45, 1302-1310	3.6	33
58	Statistical shape modelling to aid surgical planning: associations between surgical parameters and head shapes following spring-assisted cranioplasty. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2017</b> , 12, 1739-1749	3.9	11
57	Cranial bone structure in children with sagittal craniosynostosis: Relationship with surgical outcomes. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2017</b> , 70, 1589-1597	1.7	6
56	Facial Bipartition Distraction <b>2017</b> , 177-190		
55	An Automatic 3D Facial Landmarking Algorithm Using 2D Gabor Wavelets. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 580-8	8.7	12
54	Raised intracranial pressure in Crouzon syndrome: incidence, causes, and management. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2016</b> , 17, 469-75	2.1	34
53	Design, Manufacturing, and In Vitro Testing of a Patient-Specific Shape-Memory Expander for Nose Reconstruction With Forehead Flap Technique. <i>Journal of Craniofacial Surgery</i> , <b>2016</b> , 27, 188-90	1.2	1
52	Three-Dimensional Handheld Scanning to Quantify Head-Shape Changes in Spring-Assisted Surgery for Sagittal Craniosynostosis. <i>Journal of Craniofacial Surgery</i> , <b>2016</b> , 27, 2117-2123	1.2	25
51	A 3D Morphable Model Learnt from 10,000 Faces <b>2016</b> ,		135
50	Connecting raised intracranial pressure and cognitive delay in craniosynostosis: many assumptions, little evidence. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2016</b> , 18, 242-50	2.1	23

49	Fronto-facial advancement and bipartition in Crouzon-Pfeiffer and Apert syndromes: Impact of fronto-facial surgery upon orbital and airway parameters in FGFR2 syndromes. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2016</b> , 44, 1567-1575	3.6	24
48	Combined soft and skeletal tissue modelling of normal and dysmorphic midface postnatal development. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2016</b> , 44, 1777-1785	3.6	11
47	Describing Crouzon and Pfeiffer syndrome based on principal component analysis. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2015</b> , 43, 528-36	3.6	28
46	Adverse events of local treatment in long-term head and neck rhabdomyosarcoma survivors after external beam radiotherapy or AMORE treatment. <i>European Journal of Cancer</i> , <b>2015</b> , 51, 1424-34	7.5	30
45	Staged separation of craniopagus twins. <i>Seminars in Pediatric Surgery</i> , <b>2015</b> , 24, 241-8	2.1	8
44	Raised intracranial pressure and nonsyndromic sagittal craniosynostosis. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2015</b> , 16, 346-8	2.1	9
43	Aberrant facial flushing following monobloc fronto-facial distraction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2015</b> , 43, 1511-5	3.6	1
42	The management of midline frontonasal dermoids: a review of 55 cases at a tertiary referral center and a protocol for treatment. <i>Plastic and Reconstructive Surgery</i> , <b>2015</b> , 135, 187-196	2.7	21
41	Hypertelorism correction with facial bipartition and box osteotomy: does soft tissue translation correlate with bony movement?. <i>Journal of Craniofacial Surgery</i> , <b>2015</b> , 26, 196-200	1.2	6
40	Frontofacial advancement by distraction osteogenesis: a long-term review. <i>Plastic and Reconstructive Surgery</i> , <b>2015</b> , 135, 553-560	2.7	25
39	Craniosynostosis <b>2015</b> , 264-278		1
38	Assessing the corrective effects of facial bipartition distraction in Apert syndrome using geometric morphometrics. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2014</b> , 67, e151-61	1.7	17
37	The surgical management of Treacher Collins syndrome. <i>British Journal of Oral and Maxillofacial Surgery</i> , <b>2014</b> , 52, 581-9	1.4	31
36	Frontoethmoidal mucocele following pediatric craniofacial surgery. <i>Journal of Craniofacial Surgery</i> , <b>2014</b> , 25, 2008-12	1.2	1
35	A classification system to guide orbitozygomatic reconstruction in Treacher-Collins syndrome. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2013</b> , 66, 1003-5	1.7	8
34	Craniofacial disorders that have phenotypic overlap with Treacher Collins syndrome. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2013</b> , 66, e234-5	1.7	1
33	The surgical management of severe macroglossia in systemic AL amyloidosis. <i>British Journal of Oral and Maxillofacial Surgery</i> , <b>2013</b> , 51, e72-4	1.4	4
32	Free groin flap in hemifacial volume reconstruction. <i>British Journal of Oral and Maxillofacial Surgery</i> , <b>2013</b> , 51, 301-6	1.4	13

31	Re: Craniofacial development: current concepts in the molecular basis of Treacher Collins syndrome. <i>British Journal of Oral and Maxillofacial Surgery</i> , <b>2013</b> , 51, 276	1.4	2
30	Monobloc and bipartition in craniofacial surgery. <i>Journal of Craniofacial Surgery</i> , <b>2013</b> , 24, 242-6	1.2	9
29	Planning surgical reconstruction in Treacher-Collins syndrome using virtual simulation. <i>Plastic and Reconstructive Surgery</i> , <b>2013</b> , 132, 790e-805e	2.7	15
28	Correcting the typical Apert face: combining bipartition with monobloc distraction. <i>Plastic and Reconstructive Surgery</i> , <b>2013</b> , 131, 219e-230e	2.7	38
27	An intrasinus approach to the monobloc osteotomy. <i>Plastic and Reconstructive Surgery</i> , <b>2013</b> , 131, 455e-456e	1.7	1
26	Complications of frontofacial advancement. <i>Childs Nervous System</i> , <b>2012</b> , 28, 1571-6	1.7	44
25	Congenital malignant rhabdoid tumor of the scalp. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2012</b> , 40, e258-60	3.6	7
24	Bone sutures--prevention of vertical height gain in midface distraction during callus formation. <i>British Journal of Oral and Maxillofacial Surgery</i> , <b>2012</b> , 50, 682	1.4	
23	Butterfly reconstruction of the anterior scalp hairline using bilaterally apposing STA island flaps. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2012</b> , 65, e213-6	1.7	
22	Using principal component analysis to describe the Apert skull deformity and simulate its correction. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2012</b> , 65, 1750-2	1.7	12
21	Frontofacial monobloc distraction in the very young: a review of 12 consecutive cases. <i>Plastic and Reconstructive Surgery</i> , <b>2012</b> , 129, 488e-497e	2.7	38
20	Transcutaneous reconstructive lateral canthal anchoring for craniofacial surgery. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2011</b> , 64, 697-8	1.7	
19	Spectrum of Antley-Bixler syndrome. <i>Journal of Craniofacial Surgery</i> , <b>2010</b> , 21, 1560-4	1.2	30
18	Unilateral isolated frontosphenoidal craniosynostosis causing frontal plagiocephaly. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2009</b> , 62, e255-8	1.7	21
17	Frontofacial monobloc distraction using the StealthStation intraoperative navigation system: the ability to see where you are cutting. <i>Journal of Craniofacial Surgery</i> , <b>2009</b> , 20, 892-4	1.2	7
16	The evaluation of bony union after frontofacial distraction. <i>Journal of Craniofacial Surgery</i> , <b>2009</b> , 20, 275-8	1.2	6
15	Ocular advancement in monobloc distraction. <i>Plastic and Reconstructive Surgery</i> , <b>2009</b> , 123, 1570-1577	2.7	18
14	Long-term experience with methylmethacrylate cranioplasty in craniofacial surgery. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2008</b> , 61, 753	1.7	2



13	Monobloc distraction in an infant, using the rigid external distractor: problems and solutions--a case report. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2008</b> , 36, 15-20	3.6	13
12	Juvenile nasopharyngeal angiofibroma involving the cavernous sinus: Does surgery have a role?. <i>International Journal of Pediatric Otorhinolaryngology Extra</i> , <b>2008</b> , 3, 128-131		2
11	Relapse following frontofacial advancement using the rigid external distractor. <i>Journal of Craniofacial Surgery</i> , <b>2008</b> , 19, 113-20	1.2	20
10	Functional outcomes in monobloc advancement by distraction using the rigid external distractor device. <i>Plastic and Reconstructive Surgery</i> , <b>2008</b> , 121, 1311-1322	2.7	54
9	Three-dimensional image analysis of facial skeletal changes after monobloc and bipartition distraction. <i>Plastic and Reconstructive Surgery</i> , <b>2008</b> , 122, 225-231	2.7	40
8	Midface osteotomy versus distraction: the effect on speech, nasality, and velopharyngeal function in craniofacial dysostosis. <i>Cleft Palate-Craniofacial Journal</i> , <b>2008</b> , 45, 353-63	1.9	19
7	Raised intracranial pressure in Apert syndrome. <i>Plastic and Reconstructive Surgery</i> , <b>2008</b> , 122, 1162-1168	2.7	69
6	Picture of the month. Diagnosis: periocular hemangioma: an eye-opening experience. <i>JAMA Pediatrics</i> , <b>2007</b> , 161, 1001; discussion 1002		1
5	Surgical treatment of periocular hemangiomas: a single-center experience. <i>Plastic and Reconstructive Surgery</i> , <b>2007</b> , 119, 1553-1562	2.7	13
4	Monitoring visual function in children with syndromic craniosynostosis: a comparison of 3 methods. <i>JAMA Ophthalmology</i> , <b>2006</b> , 124, 1119-26		62
3	The accuracy of head and neck carcinoma sentinel lymph node biopsy in the clinically N0 neck. <i>Cancer</i> , <b>2001</b> , 91, 2077-83	6.4	166
2	A suggested method for sentinel node biopsy in squamous cell carcinoma of the head and neck. <i>Head and Neck</i> , <b>1999</b> , 21, 728-33	4.2	114
1	Modifications to surgical practise. <i>Microsurgery</i> , <b>1996</b> , 17, 243	2.1	