

Simon D Tran

List of Publications by Year in descending order

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126
papers

4,331
citations

109321

35
h-index

133252

59
g-index

131
all docs

131
docs citations

131
times ranked

4776
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Hydrogels in Tissue Engineering and Regenerative Medicine. <i>Materials</i> , 2019, 12, 3323.	2.9	473
2	Saliva as a diagnostic tool for oral and systemic diseases. <i>Journal of Oral Biology and Craniofacial Research</i> , 2016, 6, 67-76.	1.9	251
3	Differentiation of human bone marrow-derived cells into buccal epithelial cells in vivo: a molecular analytical study. <i>Lancet, The</i> , 2003, 361, 1084-1088.	13.7	169
4	Bone marrow-derived cells rescue salivary gland function in mice with head and neck irradiation. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 80-87.	2.8	129
5	Graphene and hydroxyapatite self-assemble into homogeneous, free standing nanocomposite hydrogels for bone tissue engineering. <i>Nanoscale</i> , 2015, 7, 7992-8002.	5.6	124
6	Improved Multiplex PCR Using Conserved and Species-Specific 16S rRNA Gene Primers for Simultaneous Detection of <i>Actinobacillus actinomycetemcomitans</i> , <i>Bacteroides forsythus</i> , and <i>Porphyromonas gingivalis</i> . <i>Journal of Clinical Microbiology</i> , 1999, 37, 3504-3508.	3.9	122
7	Risk indicators for periodontal disease in a racially diverse urban population. <i>Journal of Clinical Periodontology</i> , 1996, 23, 982-988.	4.9	98
8	Dental 3D-Printing: Transferring Art from the Laboratories to the Clinics. <i>Polymers</i> , 2021, 13, 157.	4.5	94
9	Hydrogel Encapsulation of Mesenchymal Stem Cells and Their Derived Exosomes for Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 684.	4.1	90
10	Improving PEEK bioactivity for craniofacial reconstruction using a 3D printed scaffold embedded with mesenchymal stem cells. <i>Journal of Biomaterials Applications</i> , 2016, 31, 132-139.	2.4	86
11	Primary Culture of Polarized Human Salivary Epithelial Cells for Use in Developing an Artificial Salivary Gland. <i>Tissue Engineering</i> , 2005, 11, 172-181.	4.6	77
12	Mesenchymal Stromal Cells Improve Salivary Function and Reduce Lymphocytic Infiltrates in Mice with Sjögren's-Like Disease. <i>PLoS ONE</i> , 2012, 7, e38615.	2.5	75
13	The impact of COVID-19 on dental education in North America—Where do we go next?. <i>European Journal of Dental Education</i> , 2020, 24, 825-827.	2.0	73
14	Paracrine Effects of Bone Marrow Soup Restore Organ Function, Regeneration, and Repair in Salivary Glands Damaged by Irradiation. <i>PLoS ONE</i> , 2013, 8, e61632.	2.5	70
15	Matrigel improves functional properties of human submandibular salivary gland cell line. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 622-631.	2.8	68
16	Efficacy and safety of an intraoral electrostimulation device for xerostomia relief: A multicenter, randomized trial. <i>Arthritis and Rheumatism</i> , 2011, 63, 180-190.	6.7	67
17	Transplanted human bone marrow cells generate new brain cells. <i>Journal of the Neurological Sciences</i> , 2005, 233, 121-123.	0.6	66
18	The Applications of 3D Printing for Craniofacial Tissue Engineering. <i>Micromachines</i> , 2019, 10, 480.	2.9	66

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19	Persistent Presence of <i>Bacteroides forsythus</i> as a Risk Factor for Attachment Loss in a Population With Low Prevalence and Severity of Adult Periodontitis. <i>Journal of Periodontology</i> , 2001, 72, 1-10.	3.4	65
20	Matrigel Improves Functional Properties of Primary Human Salivary Gland Cells. <i>Tissue Engineering - Part A</i> , 2011, 17, 1229-1238.	3.1	64
21	Intraoral electrostimulator for xerostomia relief: a long-term, multicenter, open-label, uncontrolled, clinical trial. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2012, 113, 773-781.	0.4	51
22	Biomaterial surface proteomic signature determines interaction with epithelial cells. <i>Acta Biomaterialia</i> , 2017, 54, 150-163.	8.3	51
23	COVID-19's impact on private practice and academic dentistry in North America. <i>Oral Diseases</i> , 2021, 27, 684-687.	3.0	51
24	Polymeric Scaffolds for Dental, Oral, and Craniofacial Regenerative Medicine. <i>Molecules</i> , 2021, 26, 7043.	3.8	50
25	Absence of Tight Junction Formation in an Allogeneic Graft Cell Line Used for Developing an Engineered Artificial Salivary Gland. <i>Tissue Engineering</i> , 2002, 8, 871-878.	4.6	49
26	Bone marrow-derived cells: A potential approach for the treatment of xerostomia. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 5-9.	2.8	49
27	Human Mesenchymal Stem Cells Cultured with Salivary Gland Biopsies Adopt an Epithelial Phenotype. <i>Stem Cells and Development</i> , 2011, 20, 959-967.	2.1	46
28	Integrin clustering induces kinectin accumulation. <i>Journal of Cell Science</i> , 2002, 115, 2031-40.	2.0	45
29	Periodontal associations in cardiovascular diseases: The latest evidence and understanding. <i>Journal of Oral Biology and Craniofacial Research</i> , 2015, 5, 203-206.	1.9	44
30	Cancer stem cells enrichment with surface markers CD271 and CD44 in human head and neck squamous cell carcinomas. <i>Carcinogenesis</i> , 2020, 41, 458-466.	2.8	42
31	Distribution of Tight Junction Proteins in Adult Human Salivary Glands. <i>Journal of Histochemistry and Cytochemistry</i> , 2008, 56, 1093-1098.	2.5	41
32	Re-engineering Primary Epithelial Cells from Rhesus Monkey Parotid Glands for Use in Developing an Artificial Salivary Gland. <i>Tissue Engineering</i> , 2006, 12, 2939-2948.	4.6	40
33	Axolotl as a Model to Study Scarless Wound Healing in Vertebrates: Role of the Transforming Growth Factor Beta Signaling Pathway. <i>Advances in Wound Care</i> , 2013, 2, 250-260.	5.1	40
34	Three-dimensionally printed polyetherketoneketone scaffolds with mesenchymal stem cells for the reconstruction of critical-sized mandibular defects. <i>Laryngoscope</i> , 2017, 127, E392-E398.	2.0	40
35	Cells from bone marrow that evolve into oral tissues and their clinical applications. <i>Oral Diseases</i> , 2007, 13, 11-16.	3.0	39
36	Mesenchymal Stem Cells Extract (MSCsE)-Based Therapy Alleviates Xerostomia and Keratoconjunctivitis Sicca in Sjogren's Syndrome-Like Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4750.	4.1	39

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37	Insight into Salivary Gland Aquaporins. <i>Cells</i> , 2020, 9, 1547.	4.1	36
38	The impact of gene therapy on dentistry. <i>Journal of the American Dental Association</i> , 2002, 133, 35-44.	1.5	35
39	Reversal of Sjogren's-like syndrome in non-obese diabetic mice. <i>Annals of the Rheumatic Diseases</i> , 2007, 66, 812-814.	0.9	35
40	Osteogenic Potential of Dental Mesenchymal Stem Cells in Preclinical Studies: A Systematic Review Using Modified ARRIVE and CONSORT Guidelines. <i>Stem Cells International</i> , 2015, 2015, 1-28.	2.5	35
41	Bone extracts immunomodulate and enhance the regenerative performance of dicalcium phosphates bioceramics. <i>Acta Biomaterialia</i> , 2019, 89, 343-358.	8.3	35
42	Cell surface markers CD44 and CD166 localized specific populations of salivary acinar cells. <i>Oral Diseases</i> , 2012, 18, 162-168.	3.0	34
43	Head and neck cancer management and cancer stem cells implication. <i>Saudi Dental Journal</i> , 2019, 31, 395-416.	1.6	33
44	Synergy between genetic and tissue engineering: creating an artificial salivary gland. <i>Periodontology</i> 2000, 2006, 41, 218-223.	13.4	32
45	Interferon- β Induces Immunoproteasomes and the Presentation of MHC I-Associated Peptides on Human Salivary Gland Cells. <i>PLoS ONE</i> , 2014, 9, e102878.	2.5	31
46	Decellularized Extracellular Matrix Composite Hydrogel Bioinks for the Development of 3D Bioprinted Head and Neck in Vitro Tumor Models. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5288-5300.	5.2	31
47	Combination of polyetherketoneketone scaffold and human mesenchymal stem cells from temporomandibular joint synovial fluid enhances bone regeneration. <i>Scientific Reports</i> , 2019, 9, 472.	3.3	30
48	Sulforaphane as a Promising Natural Molecule for Cancer Prevention and Treatment. <i>Current Medical Science</i> , 2021, 41, 250-269.	1.8	30
49	Microchimerism in Salivary Glands after Blood- and Marrow-Derived Stem Cell Transplantation. <i>Biology of Blood and Marrow Transplantation</i> , 2011, 17, 429-433.	2.0	27
50	An Overview on the Histogenesis and Morphogenesis of Salivary Gland Neoplasms and Evolving Diagnostic Approaches. <i>Cancers</i> , 2021, 13, 3910.	3.7	27
51	Identification of the active components in Bone Marrow Soup: a mitigator against irradiation-injury to salivary glands. <i>Scientific Reports</i> , 2015, 5, 16017.	3.3	26
52	Advances in Medical Wearable Biosensors: Design, Fabrication and Materials Strategies in Healthcare Monitoring. <i>Molecules</i> , 2022, 27, 165.	3.8	26
53	De differentiated Fat (<sc>DFAT</sc>) cells: A cell source for oral and maxillofacial tissue engineering. <i>Oral Diseases</i> , 2018, 24, 1161-1167.	3.0	25
54	Immune responses following salivary gland administration of recombinant adeno-associated virus serotype 2 vectors. <i>Journal of Gene Medicine</i> , 2005, 7, 432-441.	2.8	24

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55	Bone marrow cells are a source of undifferentiated cells to prevent Sjögren's syndrome and to preserve salivary glands function in the non-obese diabetic mice. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1893-1899.	2.8	23
56	Treatment for salivary gland hypofunction at both initial and advanced stages of Sjögren-like disease: a comparative study of bone marrow therapy versus spleen cell therapy with a 1-year monitoring period. <i>Cytotherapy</i> , 2014, 16, 412-423.	0.7	22
57	A Simplified and Systematic Method to Isolate, Culture, and Characterize Multiple Types of Human Dental Stem Cells from a Single Tooth. <i>Methods in Molecular Biology</i> , 2017, 1553, 191-207.	0.9	22
58	Cross-contamination of the human salivary gland <sc>HSG</sc> cell line with HeLa cells: A <sc>STR</sc> analysis study. <i>Oral Diseases</i> , 2018, 24, 1477-1483.	3.0	22
59	Effects of double ligation of Stensen's duct on the rabbit parotid gland. <i>Biotechnic and Histochemistry</i> , 2014, 89, 181-198.	1.3	20
60	Perfluorodecalin and bone regeneration. , 2013, 25, 22-36.		20
61	Adiposity and gingival crevicular fluid tumour necrosis factorα levels in children. <i>Journal of Clinical Periodontology</i> , 2009, 36, 301-307.	4.9	19
62	Overexpression of CD109 in the Epidermis Differentially Regulates ALK1 Versus ALK5 Signaling and Modulates Extracellular Matrix Synthesis in the Skin. <i>Journal of Investigative Dermatology</i> , 2017, 137, 641-649.	0.7	19
63	Biomimetic Aspects of Oral and Dentofacial Regeneration. <i>Biomimetics</i> , 2020, 5, 51.	3.3	19
64	Labial Stem Cell Extract Mitigates Injury to Irradiated Salivary Glands. <i>Journal of Dental Research</i> , 2020, 99, 293-301.	5.2	19
65	Broccoli extract increases drug-mediated cytotoxicity towards cancer stem cells of head and neck squamous cell carcinoma. <i>British Journal of Cancer</i> , 2020, 123, 1395-1403.	6.4	18
66	Recent Advances in Hydrogels: Ophthalmic Applications in Cell Delivery, Vitreous Substitutes, and Ocular Adhesives. <i>Biomedicines</i> , 2021, 9, 1203.	3.2	18
67	Metabolic syndrome and gingival inflammation in Caucasian children with a family history of obesity. <i>Journal of Clinical Periodontology</i> , 2013, 40, 986-993.	4.9	16
68	Quantitative Analysis of Protein and Gene Expression in Salivary Glands of Sjogren's-Like Disease NOD Mice Treated by Bone Marrow Soup. <i>PLoS ONE</i> , 2014, 9, e87158.	2.5	16
69	Bone Marrow-derived Cell Therapy for Oral Mucosal Repair after Irradiation. <i>Journal of Dental Research</i> , 2014, 93, 813-820.	5.2	16
70	Three-dimensional organotypic culture of human salivary glands: the slice culture model. <i>Oral Diseases</i> , 2016, 22, 639-648.	3.0	16
71	The role of human fibronectin- or placenta basement membrane extract-based gels in favouring the formation of polarized salivary acinar-like structures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2643-2657.	2.7	16
72	Natural extracellular matrix scaffolds recycled from human salivary digests: a morphometric study. <i>Oral Diseases</i> , 2016, 22, 313-323.	3.0	15

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73	Anti-inflammatory and vasculogenic conditioning of peripheral blood mononuclear cells reinforces their therapeutic potential for radiation-injured salivary glands. <i>Stem Cell Research and Therapy</i> , 2019, 10, 304.	5.5	15
74	Lyophilized bone marrow cell extract functionally restores irradiation-injured salivary glands. <i>Oral Diseases</i> , 2018, 24, 202-206.	3.0	14
75	Optimal timing and frequency of bone marrow soup therapy for functional restoration of salivary glands injured by single-dose or fractionated irradiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1195-e1205.	2.7	14
76	Cell culture of differentiated human salivary epithelial cells in a serum-free and scalable suspension system: The salivary functional units model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1559-1570.	2.7	14
77	The Role of Surface Chemistry in the Osseointegration of PEEK Implants. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1506-1521.	5.2	14
78	GDFs promote tenogenic characteristics on human periodontal ligament-derived cells in culture at late passages. <i>Growth Factors</i> , 2013, 31, 165-173.	1.7	13
79	Three-Dimensional Printed Scaffolds with Multipotent Mesenchymal Stromal Cells for Rabbit Mandibular Reconstruction and Engineering. <i>Methods in Molecular Biology</i> , 2017, 1553, 273-291.	0.9	13
80	3D Cultures of Salivary Gland Cells in Native or Gelled Egg Yolk Plasma, Combined with Egg White and 3D-Printing of Gelled Egg Yolk Plasma. <i>Materials</i> , 2019, 12, 3480.	2.9	13
81	Broccoli extract improves chemotherapeutic drug efficacy against head&neck squamous cell carcinomas. <i>Medical Oncology</i> , 2018, 35, 124.	2.5	12
82	Nanomaterials in Craniofacial Tissue Regeneration: A Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 317.	2.5	12
83	Cannulation of the Mouse Submandibular Salivary Gland via the Wharton's Duct. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	11
84	Oral&facial Tissue Reconstruction in the Regenerative Axolotl. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016, 326, 489-502.	1.3	11
85	Quality of supervision: postgraduate dental research trainees&TM perspectives. <i>European Journal of Dental Education</i> , 2016, 20, 32-38.	2.0	11
86	Comparative adsorption profiles of basal lamina proteome and gingival cells onto dental and titanium surfaces. <i>Acta Biomaterialia</i> , 2018, 73, 547-558.	8.3	11
87	Differences in platelet-rich plasma composition influence bone healing. <i>Journal of Clinical Periodontology</i> , 2021, 48, 1613-1623.	4.9	11
88	Regeneration of tissues of the oral complex: current clinical trends and research advances. <i>Journal of the Canadian Dental Association</i> , 2013, 79, d1.	0.6	11
89	Bioengineering in salivary gland regeneration. <i>Journal of Biomedical Science</i> , 2022, 29, .	7.0	11
90	The Optimization of a Novel Hydrogel&Egg White-Alginate for 2.5D Tissue Engineering of Salivary Spheroid-Like Structure. <i>Molecules</i> , 2020, 25, 5751.	3.8	10

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91	Cell extracts from spleen and adipose tissues restore function to irradiation-injured salivary glands. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1289-e1296.	2.7	9
92	Acquired Facial, Maxillofacial, and Oral Asymmetries—A Review Highlighting Diagnosis and Management. <i>Symmetry</i> , 2021, 13, 1661.	2.2	9
93	Career pathways and professional skills of postgraduate students from a dental research-intensive programme. <i>European Journal of Dental Education</i> , 2019, 23, 143-150.	2.0	8
94	Postoperative Administration of the Acetylcholinesterase Inhibitor, Donepezil, Interferes with Bone Healing and Implant Osseointegration in a Rat Model. <i>Biomolecules</i> , 2020, 10, 1318.	4.0	8
95	Scaffolds for epithelial tissue engineering customized in elastomeric molds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 880-890.	3.4	7
96	Tissue Engineering of Oral Mucosa and Salivary Gland: Disease Modeling and Clinical Applications. <i>Micromachines</i> , 2020, 11, 1066.	2.9	7
97	3D Cell Culture of Human Salivary Glands Using Nature-Inspired Functional Biomaterials: The Egg Yolk Plasma and Egg White. <i>Materials</i> , 2020, 13, 4807.	2.9	7
98	Transient Exposure to Hypoxic and Anoxic Oxygen Concentrations Promotes Either Osteogenic or Ligamentogenic Characteristics of PDL Cells. <i>BioResearch Open Access</i> , 2015, 4, 175-187.	2.6	6
99	Compact Bone-Derived Multipotent Mesenchymal Stromal Cells (MSCs) for the Treatment of Sjogren's-like Disease in NOD Mice. <i>Methods in Molecular Biology</i> , 2017, 1553, 25-39.	0.9	6
100	3D Culture Histology Cryosectioned Well Insert Technology Preserves the Structural Relationship between Cells and Biomaterials for Time-lapse Analysis of 3D Cultures. <i>Biotechnology Journal</i> , 2019, 14, 1900105.	3.5	6
101	Telesimulation training applying flipped classroom in the dental clinic for medical emergencies. <i>Journal of Dental Anesthesia and Pain Medicine</i> , 2021, 21, 179.	1.0	6
102	Egg White Alginate as a Novel Scaffold Biomaterial for 3D Salivary Cell Culturing. <i>Biomimetics</i> , 2022, 7, 5.	3.3	6
103	Saliva as a diagnostic specimen for SARS-CoV-2 detection: A scoping review. <i>Oral Diseases</i> , 2022, 28, 2362-2390.	3.0	6
104	Unbiased proteomic analysis detects painful systemic inflammatory profile in the serum of nerve-injured mice. <i>Pain</i> , 2023, 164, e77-e90.	4.2	6
105	Response to Comment on Chong et al. on Diabetes Reversal in NOD Mice. <i>Science</i> , 2006, 314, 1243b-1243b.	12.6	5
106	Studying Sjogren's syndrome in mice: What is the best available model?. <i>Journal of Oral Biology and Craniofacial Research</i> , 2021, 11, 245-255.	1.9	5
107	Isolation, Culture, and Characterization of Primary Salivary Gland Cells. <i>Current Protocols</i> , 2022, 2, .	2.9	5
108	Regenerative dentistry in periodontics. <i>Saudi Dental Journal</i> , 2019, 31, 301-302.	1.6	4

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109	The effect of aging on the bone healing properties of blood plasma. <i>Injury</i> , 2021, 52, 1697-1708.	1.7	4
110	Histological characteristics following a long-term nitrate-rich diet in miniature pigs with parotid atrophy. <i>International Journal of Clinical and Experimental Pathology</i> , 2015, 8, 6225-34.	0.5	4
111	Characterization and functional analysis of the adipose tissue-derived stromal vascular fraction of pediatric patients with osteogenesis imperfecta. <i>Scientific Reports</i> , 2022, 12, 2414.	3.3	4
112	Graphene Oxide/Elastin Nanostructure-Based Membranes for Bone Regeneration. <i>ACS Applied Nano Materials</i> , 2022, 5, 6890-6900.	5.0	4
113	Circulating undercarboxylated osteocalcin and gingival crevicular fluid tumour necrosis factor- α in children. <i>Journal of Clinical Periodontology</i> , 2014, 41, 467-472.	4.9	3
114	Cardiovascular Diseases and Periodontal Disease. <i>Current Oral Health Reports</i> , 2018, 5, 13-18.	1.6	3
115	Axolotls TM and Mices TM Oral-Maxillofacial Trephining Wounds Heal Differently. <i>Cells Tissues Organs</i> , 2021, 210, 260-274.	2.3	3
116	Adult Stem Cell Therapy for Salivary Glands, with a Special Emphasis on Mesenchymal Stem Cells. , 2017, , 93-102.		3
117	Saliva – A Promising Tool for Diagnosing Oral Diseases. <i>Current Oral Health Reports</i> , 2018, 5, 242-249.	1.6	2
118	Tracking of Oral and Craniofacial Stem Cells in Tissue Development, Regeneration, and Diseases. <i>Current Osteoporosis Reports</i> , 2021, , 1.	3.6	2
119	Detection of <i>Fusobacterium nucleatum</i> subspecies in the saliva of pre-colorectal cancer patients, using tandem mass spectrometry. <i>Archives of Oral Biology</i> , 2022, 134, 105337.	1.8	2
120	Investigation of <i>Fusobacterium Nucleatum</i> in saliva and colorectal mucosa: a pilot study. <i>Scientific Reports</i> , 2022, 12, 5622.	3.3	2
121	Aging, stem cells and cancer updated. <i>Aging</i> , 2021, 13, 20854-20855.	3.1	1
122	Titanium-Containing Silicate-Based Sol-Gel Bioactive Glass: Development, Characterization, and Applications. <i>Langmuir</i> , 2021, 37, 14243-14253.	3.5	1
123	Highly Concentrated Nitrogen-Doped Carbon Nanotubes in Alginate-Gelatin 3D Hydrogels Enable in Vitro Breast Cancer Spheroid Formation. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.6	1
124	Potential Cell-Based Therapies for Irreversibly Damaged Salivary Glands and Atrophic Alveolar Bone. , 0, , .		0
125	Human umbilical cord blood hematopoietic stem cell expansion by the α -binding protein Musashi2. <i>Oral Diseases</i> , 2017, 23, 548-550.	3.0	0
126	Association between metabolic syndrome and gingival inflammation in obese children. <i>International Journal of Dental Hygiene</i> , 2018, 16, 397-403.	1.9	0