

Chan Hum Park

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7052582/chan-hum-park-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

127 papers	2,873 citations	29 h-index	47 g-index
130 ext. papers	3,630 ext. citations	5.1 avg, IF	5.1 L-index

#	Paper	IF	Citations
127	Fabrication and characterization of a myrrh hydrocolloid dressing for dermal wound healing. <i>Colloids and Interface Science Communications</i> , 2022 , 48, 100617	5.4	0
126	Silk Fibroin-Based Biomaterials for Hemostatic Applications. <i>Biomolecules</i> , 2022 , 12, 660	5.9	2
125	Biocompatible fluorescent silk fibroin bioink for digital light processing 3D printing. <i>International Journal of Biological Macromolecules</i> , 2022 , 213, 317-327	7.9	1
124	3D bioprinted silk fibroin hydrogels for tissue engineering. <i>Nature Protocols</i> , 2021 , 16, 5484-5532	18.8	10
123	Non-invasive in vivo monitoring of transplanted stem cells in 3D-bioprinted constructs using near-infrared fluorescent imaging. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10216	14.8	0
122	A digital light processing 3D printed magnetic bioreactor system using silk magnetic bioink. <i>Biofabrication</i> , 2021 , 13,	10.5	5
121	Reinforced-hydrogel encapsulated hMSCs towards brain injury treatment by trans-septal approach. <i>Biomaterials</i> , 2021 , 266, 120413	15.6	15
120	Treatment of Fungal-Infected Diabetic Wounds with Low Temperature Plasma.. <i>Biomedicines</i> , 2021 , 10,	4.8	1
119	Recent Advances in Fluorescent Silk Fibroin. <i>Frontiers in Materials</i> , 2020 , 7,	4	19
118	Cytocompatibility of Modified Silk Fibroin with Glycidyl Methacrylate for Tissue Engineering and Biomedical Applications. <i>Biomolecules</i> , 2020 , 11,	5.9	5
117	Silk Fibroin Bioinks for Digital Light Processing (DLP) 3D Bioprinting. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1249, 53-66	3.6	6
116	Digital light processing 3D printed silk fibroin hydrogel for cartilage tissue engineering. <i>Biomaterials</i> , 2020 , 232, 119679	15.6	103
115	Rapidly photocurable silk fibroin sealant for clinical applications. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	15
114	4D-bioprinted silk hydrogels for tissue engineering. <i>Biomaterials</i> , 2020 , 260, 120281	15.6	62
113	NIR fluorescence for monitoring in vivo scaffold degradation along with stem cell tracking in bone tissue engineering. <i>Biomaterials</i> , 2020 , 258, 120267	15.6	17
112	A 3D Printable Electroconductive Biocomposite Bioink Based on Silk Fibroin-Conjugated Graphene Oxide. <i>Nano Letters</i> , 2020 , 20, 6873-6883	11.5	21
111	3D Printing and NIR Fluorescence Imaging Techniques for the Fabrication of Implants. <i>Materials</i> , 2020 , 13,	3.5	2

110	An Endogenous Anti-aging Factor, Sonic Hedgehog, Suppresses Endometrial Stem Cell Aging through SERPINB2. <i>Molecular Therapy</i> , 2019 , 27, 1286-1298	11.7	16
109	Recirculating peritoneal dialysis system using urease-fixed silk fibroin membrane filter with spherical carbonaceous adsorbent. <i>Materials Science and Engineering C</i> , 2019 , 97, 55-66	8.3	9
108	Precisely printable and biocompatible silk fibroin bioink for digital light processing 3D printing. <i>Nature Communications</i> , 2018 , 9, 1620	17.4	295
107	Development of an omentum-cultured oesophageal scaffold reinforced by a 3D-printed ring: feasibility of an in vivo bioreactor. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 885-895	6.1	13
106	Microplasma Jet Arrays as a Therapeutic Choice for Fungal Keratitis. <i>Scientific Reports</i> , 2018 , 8, 2422	4.9	14
105	Novel transparent collagen film patch derived from duck's feet for tympanic membrane perforation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 997-1010	3.5	6
104	New concept of 3D printed bone clip (polylactic acid/hydroxyapatite/silk composite) for internal fixation of bone fractures. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 894-906	3.5	29
103	A 4-Axis Technique for Three-Dimensional Printing of an Artificial Trachea. <i>Tissue Engineering and Regenerative Medicine</i> , 2018 , 15, 415-425	4.5	11
102	Nature-derived epigallocatechin gallate/duck's feet collagen/hydroxyapatite composite sponges for enhanced bone tissue regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 984-996	3.5	8
101	NF- κ B signaling is key in the wound healing processes of silk fibroin. <i>Acta Biomaterialia</i> , 2018 , 67, 183-195	10.8	83
100	Microwave-Assisted Synthesis of Biocompatible Silk Fibroin-Based Carbon Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700300	3.1	16
99	Preventive effects of tonsil-derived mesenchymal stem cells on osteoradionecrosis in a rat model. <i>Head and Neck</i> , 2018 , 40, 526-535	4.2	17
98	Fabrication and characterization of the porous duck's feet collagen sponge for wound healing applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 960-971	3.5	10
97	An omentum-cultured 3D-printed artificial trachea: in vivo bioreactor. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, S1131-S1140	6.1	14
96	Fabrication of a Urea Biosensor for Real-Time Dynamic Fluid Measurement. <i>Sensors</i> , 2018 , 18,	3.8	14
95	New fabrication method of silk fibroin plate and screw based on a centrifugal casting technique. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 2221-2229	4.4	4
94	Silk Fibroin in Wound Healing Process. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1077, 115-126	3.6	24
93	SERPINB2 is a novel indicator of stem cell toxicity. <i>Cell Death and Disease</i> , 2018 , 9, 724	9.8	10

92	Application of a Collagen Patch Derived from Duck Feet in Acute Tympanic Membrane Perforation. <i>Tissue Engineering and Regenerative Medicine</i> , 2017 , 14, 233-241	4.5	10
91	Fabrication of a highly effective electrochemical urea sensing platform based on urease-immobilized silk fibroin scaffold and aminated glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2017 , 251, 472-480	8.5	19
90	Effects of silk fibroin in murine dry eye. <i>Scientific Reports</i> , 2017 , 7, 44364	4.9	10
89	Psychological stress as a measure for treatment response prediction in idiopathic sudden hearing loss. <i>Journal of Psychosomatic Research</i> , 2017 , 102, 41-46	4.1	5
88	In vitro and in vivo evaluation of the duck's feet collagen sponge for hemostatic applications. <i>Journal of Biomaterials Applications</i> , 2017 , 32, 484-491	2.9	17
87	In vivo bone regeneration evaluation of duck's feet collagen/PLGA scaffolds in rat calvarial defect. <i>Macromolecular Research</i> , 2017 , 25, 994-999	1.9	15
86	Effect of crystallinity on acoustic behaviors of biocompatible silk studied by Brillouin spectroscopy. <i>Journal of the Korean Physical Society</i> , 2017 , 71, 144-149	0.6	
85	Enhanced osteogenesis of β -tricalcium phosphate reinforced silk fibroin scaffold for bone tissue biofabrication. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 14-23	7.9	34
84	Novel fabrication method of the peritoneal dialysis filter using silk fibroin with urease fixation system. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2136-2144	3.5	19
83	Canal reconstruction and mastoid obliteration using floating cartilages and musculo-periosteal flaps. <i>Laryngoscope</i> , 2017 , 127, 1153-1160	3.6	13
82	Artificial Auricular Cartilage Using Silk Fibroin and Polyvinyl Alcohol Hydrogel. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	43
81	Analysis of Long-Term Complication on Patients with Obstructive Sleep Apnea Who Treated Mandibular Advancement Device. <i>Korean Journal of Otorhinolaryngology-Head and Neck Surgery</i> , 2017 , 60, 449-453	0.2	1
80	Osteoinductive silk fibroin/titanium dioxide/hydroxyapatite hybrid scaffold for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 160-7	7.9	38
79	Pressure and temperature dependences of the acoustic behaviors of biocompatible silk studied by using Brillouin spectroscopy. <i>Journal of the Korean Physical Society</i> , 2016 , 69, 213-219	0.6	3
78	Three-dimensional electrospun silk-fibroin nanofiber for skin tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1567-1574	7.9	101
77	Fabrication of 3D porous SF/ETCP hybrid scaffolds for bone tissue reconstruction. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1779-87	5.4	20
76	Fabrication and characterization of hydrocolloid dressing with silk fibroin nanoparticles for wound healing. <i>Tissue Engineering and Regenerative Medicine</i> , 2016 , 13, 218-226	4.5	37
75	Three dimensional poly(ϵ -caprolactone) and silk fibroin nanocomposite fibrous matrix for artificial dermis. <i>Materials Science and Engineering C</i> , 2016 , 68, 758-767	8.3	54

74	Effect of low frequency on speech performance with bimodal hearing in bilateral severe hearing loss. <i>Laryngoscope</i> , 2016 , 126, 2817-2822	3.6	4
73	Hybrid scaffolds based on PLGA and silk for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 209-21	4.4	60
72	Fabrication of duck's feet collagen-silk hybrid biomaterial for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 85, 442-50	7.9	31
71	Wound healing effect of electrospun silk fibroin nanomatrix in burn-model. <i>International Journal of Biological Macromolecules</i> , 2016 , 85, 29-39	7.9	112
70	In Reply: Treatment for Acute Tympanic Membrane Perforation. <i>Clinical and Experimental Otorhinolaryngology</i> , 2016 , 9, 386	3.4	
69	A prospective cohort study of the silk fibroin patch in chronic tympanic membrane perforation. <i>Laryngoscope</i> , 2016 , 126, 2798-2803	3.6	16
68	An experimental burn wound-healing study of non-thermal atmospheric pressure microplasma jet arrays. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 348-57	4.4	53
67	Fabrication of silk fibroin film using centrifugal casting technique for corneal tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 508-14	3.5	29
66	Skin regeneration using duck's feet derived collagen and poly(vinyl alcohol) scaffold. <i>Macromolecular Research</i> , 2016 , 24, 359-365	1.9	9
65	Fabrication of 3D porous silk scaffolds by particulate (salt/sucrose) leaching for bone tissue reconstruction. <i>International Journal of Biological Macromolecules</i> , 2015 , 78, 215-23	7.9	68
64	Novel fabrication of fluorescent silk utilized in biotechnological and medical applications. <i>Biomaterials</i> , 2015 , 70, 48-56	15.6	37
63	Three-layered scaffolds for artificial esophagus using poly(e-caprolactone) nanofibers and silk fibroin: An experimental study in a rat model. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2057-65	5.4	30
62	Comparison of sequential same-day middle ear surgeries: bilateral mastoidectomy, unilateral mastoidectomy with contralateral tympanoplasty, and bilateral tympanoplasty. <i>European Archives of Oto-Rhino-Laryngology</i> , 2015 , 272, 1395-402	3.5	9
61	Clinical factor for successful nonsurgical treatment of pediatric peritonsillar abscess. <i>Laryngoscope</i> , 2015 , 125, 2608-11	3.6	15
60	Clinical outcomes of silk patch in acute tympanic membrane perforation. <i>Clinical and Experimental Otorhinolaryngology</i> , 2015 , 8, 117-22	3.4	25
59	Predictors of Adherence with Positive Airway Pressure Treatment in Patients with Obstructive Sleep Apnea in Korean. <i>Journal of Rhinology</i> , 2015 , 22, 89	0	3
58	Effect of pore sizes of silk scaffolds for cartilage tissue engineering. <i>Macromolecular Research</i> , 2015 , 23, 1091-1097	1.9	39
57	3D electrospun silk fibroin nanofibers for fabrication of artificial skin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 681-91	6	106

56	Effect of Duck's Feet Derived Collagen Sponge on Skin Regeneration: In Vitro Study. <i>Porrime</i> , 2015 , 39, 493-498	1	4
55	Characterization and Effect of Inflammatory Reaction of Duck-Feet Derived Collagen/Poly(lactic-co-glycolide)(PLGA) Hybrid Scaffold. <i>Porrime</i> , 2015 , 39, 837	1	5
54	Osteogenic Effect of Hybrid Scaffolds Composed of Duck Feet Collagen and PLGA. <i>Porrime</i> , 2015 , 39, 846	1	5
53	Fabrication of transparent silk fibroin film for the regeneration of corneal endothelial cells; preliminary study. <i>Macromolecular Research</i> , 2014 , 22, 297-303	1.9	9
52	Hyperglycemia as a potential prognostic factor of idiopathic sudden sensorineural hearing loss. <i>Otolaryngology - Head and Neck Surgery</i> , 2014 , 150, 853-8	5.5	25
51	A comparative mechanical and biocompatibility study of poly(ε-caprolactone), hybrid poly(ε-caprolactone)/silk, and silk nanofibers by colloidal electrospinning technique for tissue engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2014 , 29, 500-514	2	15
50	Fabrication of microporous three-dimensional scaffolds from silk fibroin for tissue engineering. <i>Macromolecular Research</i> , 2014 , 22, 592-599	1.9	14
49	Silk fibroin based hydrogel for regeneration of burn induced wounds. <i>Tissue Engineering and Regenerative Medicine</i> , 2014 , 11, 203-210	4.5	18
48	Wound healing with nonthermal microplasma jets generated in arrays of hourglass microcavity devices. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 435402	3	16
47	Facile and highly efficient approach for the fabrication of multifunctional silk nanofibers containing hydroxyapatite and silver nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3459-69	5.4	16
46	3D silk fibroin scaffold incorporating titanium dioxide (TiO ₂) nanoparticle (NPs) for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2014 , 68, 158-68	7.9	41
45	Aqua splint suture technique in isolated zygomatic arch fractures. <i>European Archives of Oto-Rhino-Laryngology</i> , 2014 , 271, 707-11	3.5	9
44	Recent advances in tissue-engineered corneal regeneration. <i>Inflammation and Regeneration</i> , 2014 , 34, 004-014	10.9	6
43	Congenital cholesteatoma localized to the tip of the mastoid bone: a case report and possible etiology. <i>Korean Journal of Audiology</i> , 2014 , 18, 85-8		3
42	Fabrication and characterization of three-dimensional silk fibroin scaffolds using a mixture of salt/sucrose. <i>Macromolecular Research</i> , 2014 , 22, 1268-1274	1.9	8
41	Development of artificial dermis using 3D electrospun silk fibroin nanofiber matrix. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 1294-303	4	44
40	Fabrication of poly(lactic-co-glycolic acid) scaffolds containing silk fibroin scaffolds for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2713-24	5.4	18
39	The Trend of Biomaterials in Facial Plastic and Reconstructive Surgery. <i>Korean Journal of Otorhinolaryngology-Head and Neck Surgery</i> , 2014 , 57, 651	0.2	1

38	Drug Induced Sleep Endoscopy for Poor-Responder to Uvulopalatopharyngoplasty in Patient with Obstructive Sleep Apnea Patients. <i>Korean Journal of Otorhinolaryngology-Head and Neck Surgery</i> , 2014 , 57, 96	0.2	4
37	Inflammatory Responses to Hydroxyapatite/Poly(lactic-co-glycolic acid) Scaffolds with Variation of Compositions. <i>Porrime</i> , 2014 , 38, 156-163	1	2
36	Transverse fracture of the stapes anterior crus caused by the blast pressure from a land mine explosion. <i>Korean Journal of Audiology</i> , 2014 , 18, 137-40		5
35	The Successful Reduction of an Anterior Maxillary Fracture with Foley Catheter and Real-Time Ultrasonography. <i>Korean Journal of Otorhinolaryngology-Head and Neck Surgery</i> , 2014 , 57, 340	0.2	0
34	Comparison between Poly(lactic-co-glycolic acid) Films Contained Natural Polymers on Adhesion and Proliferation of Schwann Cells. <i>Porrime</i> , 2014 , 38, 164-170	1	
33	Cosmetic rhinoseptoplasty in acute nasal bone fracture. <i>Otolaryngology - Head and Neck Surgery</i> , 2013 , 149, 212-8	5.5	16
32	A novel approach to fabricate silk nanofibers containing hydroxyapatite nanoparticles using a three-way stopcock connector. <i>Nanoscale Research Letters</i> , 2013 , 8, 303	5	20
31	The fixation effect of a silk fibroin-bacterial cellulose composite plate in segmental defects of the zygomatic arch: an experimental study. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2013 , 139, 629-35 ^{3.9}		24
30	Open reduction of nasal bone fractures through an intercartilaginous incision. <i>Acta Oto-Laryngologica</i> , 2013 , 133, 77-81	1.6	6
29	Comparative study of morphological and histological changes between differently structured expanded polytetrafluoroethylene implants in an animal model. <i>American Journal of Rhinology and Allergy</i> , 2013 , 27, 162-7	2.4	3
28	Facile Pore Structure Control of Poly(E-caprolactone) Nano-Fibrous Scaffold by Salt-Dispenser Aided Electrospinning. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2013 , 3, 269-275		9
27	Analysis of facial deformities in korean leprosy. <i>Clinical and Experimental Otorhinolaryngology</i> , 2013 , 6, 78-81	3.4	3
26	Fabrication and Characterization of Silk/PVA Hydrogels by Sonication and Freezing-Thawing Technique. <i>Porrime</i> , 2013 , 37, 717-721	1	1
25	Revision Rhinoplasty of Asian Noses 2013 , 1001-1036		
24	Histologic changes in transplanted expanded polytetrafluoroethylene in an animal model. <i>Laryngoscope</i> , 2012 , 122, 17-22	3.6	4
23	Analysis of hearing improvement in patients with severe to profound sudden sensorineural hearing loss according to the level of pure tone hearing threshold. <i>European Archives of Oto-Rhino-Laryngology</i> , 2012 , 269, 2057-60	3.5	9
22	Inverted papilloma of the nasal cavity and paranasal sinuses: a Korean multicenter study. <i>Laryngoscope</i> , 2012 , 122, 487-94	3.6	65
21	Biodegradation behavior of silk fibroin membranes in repairing tympanic membrane perforations. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2018-26	5.4	34

20	Preparation and in vivo degradation of controlled biodegradability of electrospun silk fibroin nanofiber mats. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3287-95	5.4	39
19	The effectiveness of 1-point fixation for zygomaticomaxillary complex fractures. <i>JAMA Otolaryngology</i> , 2012 , 138, 828-32		28
18	A balloon dilatation technique for the treatment of intramaxillary lesions using a Foley catheter in chronic maxillary sinusitis. <i>American Journal of Otolaryngology - Head and Neck Medicine and Surgery</i> , 2011 , 32, 304-7	2.8	4
17	Reduction of inferior orbital wall fractures using a Foley catheter and an Endoloop. <i>Journal of Trauma</i> , 2011 , 70, E38-41		4
16	Resorbable skeletal fixation systems for treating maxillofacial bone fractures. <i>JAMA Otolaryngology</i> , 2011 , 137, 125-9		24
15	Vestibular-evoked myogenic potentials in migrainous vertigo. <i>Otolaryngology - Head and Neck Surgery</i> , 2011 , 144, 284-7	5.5	27
14	The Influence of the Sick House Syndrome on Nasal Mucosa and Nasal Symptoms. <i>Korean Journal of Otorhinolaryngology-Head and Neck Surgery</i> , 2011 , 54, 265	0.2	
13	Enhancing the viability of fat grafts using new transfer medium containing insulin and beta-fibroblast growth factor in autologous fat transplantation. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2010 , 63, 1202-8	1.7	31
12	Subjective visual vertical during eccentric rotation in patients with vestibular neuritis. <i>European Archives of Oto-Rhino-Laryngology</i> , 2010 , 267, 357-61	3.5	13
11	Comparison of methods for the repair of acute tympanic membrane perforations: Silk patch vs. paper patch. <i>Wound Repair and Regeneration</i> , 2010 , 18, 132-8	3.6	81
10	Revision rhinoplasty of Asian noses: analysis and treatment. <i>JAMA Otolaryngology</i> , 2009 , 135, 146-55		16
9	Bilateral promontory fistula due to noncholesteatomatous chronic otitis media. <i>European Archives of Oto-Rhino-Laryngology</i> , 2009 , 266, 933-6	3.5	1
8	Can cochlear function be preserved after a modified translabyrinthine approach to eradicate a huge cholesteatoma extending to the petrous apex?. <i>European Archives of Oto-Rhino-Laryngology</i> , 2009 , 266, 1191-7	3.5	9
7	Hearing outcomes of daily intratympanic dexamethasone alone as a primary treatment modality for ISSHL. <i>Otolaryngology - Head and Neck Surgery</i> , 2009 , 141, 579-83	5.5	81
6	Endoscopic reduction of medial orbital wall fractures using the rolled silastic sheet technique. <i>Journal of Trauma</i> , 2009 , 66, 1421-4; discussion 1424		11
5	Usefulness of ultrasonography in the treatment of nasal bone fractures. <i>Journal of Trauma</i> , 2009 , 67, 1323-6		16
4	Two Cases of Meatoplasty and Otoplasty Simultaneously in Patients with Auricular Deformities and External Auricular Canal Stenosis. <i>Korean Journal of Otolaryngology - Head and Neck Surgery</i> , 2009 , 52, 386		
3	Saccular damage in patients with idiopathic sudden sensorineural hearing loss without vertigo. <i>Otolaryngology - Head and Neck Surgery</i> , 2008 , 139, 541-5	5.5	27

2	Subjective visual vertical during eccentric rotation in patients with benign paroxysmal positional vertigo. <i>Otology and Neurotology</i> , 2008 , 29, 1167-70	2.6	15
1	Histological study of expanded polytetrafluoroethylene (Gore-Tex) implanted in the human nose. <i>Rhinology</i> , 2008 , 46, 317-23	7	1