

Belinda Pinguan-Murphy

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.

128
papers

4,302
citations

36
h-index

61
g-index

137
ext. papers

4,862
ext. citations

5.1
avg, IF

5.57
L-index

#	Paper	IF	Citations
128	Polycaprolactone-Based Scaffolds Facilitates Osteogenic Differentiation of Human Adipose-Derived Stem Cells in a Co-Culture System. <i>Polymers</i> , 2021 , 13,	4.5	2
127	Comparative Study of Encoder-decoder-based Convolutional Neural Networks in Cartilage Delineation from Knee Magnetic Resonance Images. <i>Current Medical Imaging</i> , 2021 , 17, 981-987	1.2	3
126	Directing Axonal Growth: A Review on the Fabrication of Fibrous Scaffolds That Promotes the Orientation of Axons.. <i>Gels</i> , 2021 , 8,	4.2	1
125	Electrosprayed PMMA microcapsules containing green soybean oil-based acrylated epoxy and a thiol: a novel resin for smart self-healing coatings. <i>Smart Materials and Structures</i> , 2020 , 29, 085037	3.4	7
124	Essential Oils-Loaded Electrospun Biopolymers: A Future Perspective for Active Food Packaging. <i>Advances in Polymer Technology</i> , 2020 , 2020, 1-21	1.9	21
123	A LEGO inspired fiber probe analytical platform for early diagnosis of Dengue fever. <i>Materials Science and Engineering C</i> , 2020 , 109, 110629	8.3	3
122	Mechanical compression controls the biosynthesis of human osteoarthritic chondrocytes in vitro. <i>Clinical Biomechanics</i> , 2020 , 79, 105178	2.2	2
121	Mechanical Strain-Mediated Tenogenic Differentiation of Mesenchymal Stromal Cells Is Regulated through Epithelial Sodium Channels. <i>Stem Cells International</i> , 2020 , 2020, 5385960	5	3
120	Electrospin-Coating of Paper: A Natural Extracellular Matrix Inspired Design of Scaffold. <i>Polymers</i> , 2019 , 11,	4.5	4
119	Uniaxial Cyclic Tensile Stretching at 8% Strain Exclusively Promotes Tenogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Stem Cells International</i> , 2019 , 2019, 9723025 ⁵		20
118	Fabrication of three-dimensional islet models by the geometry-controlled hanging-drop method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019 , 35, 329-337	2	9
117	Carpal Bone Segmentation Using Fully Convolutional Neural Network. <i>Current Medical Imaging</i> , 2019 , 15, 983-989	1.2	7
116	Structural and bone marrow stem cell biocompatibility studies of hydrogel synthesized via chemo-enzymatic route. <i>Journal of Biomaterials Applications</i> , 2019 , 33, 854-865	2.9	1
115	Electrospin-coating of nitrocellulose membrane enhances sensitivity in nucleic acid-based lateral flow assay. <i>Analytica Chimica Acta</i> , 2018 , 1009, 81-88	6.6	39
114	Train Convolutional Neural Networks Without Well-Segmented Ground Truth Images for Cartilage Localization: Data from the Osteoarthritis Initiatives. <i>Advanced Science Letters</i> , 2018 , 24, 1771-1774	0.1	3
113	Immobilisation of hydroxyapatite-collagen on polydopamine grafted stainless steel 316L: Coating adhesion and in vitro cells evaluation. <i>Journal of Biomaterials Applications</i> , 2018 , 32, 987-995	2.9	10
112	Electrospun Polycaprolactone Nanofibers as a Reaction Membrane for Lateral Flow Assay. <i>Polymers</i> , 2018 , 10,	4.5	35

111	Paper-based point-of-care testing for diagnosis of dengue infections. <i>Critical Reviews in Biotechnology</i> , 2017 , 37, 100-111	9.4	21
110	Advances in paper-based sample pretreatment for point-of-care testing. <i>Critical Reviews in Biotechnology</i> , 2017 , 37, 411-428	9.4	58
109	Assessment of tumourigenic potential in long-term cryopreserved human adipose-derived stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2217-2226	4.4	16
108	Viral Detection: Lateral Flow Assay Based on Paper-Hydrogel Hybrid Material for Sensitive Point-of-Care Detection of Dengue Virus (Adv. Healthcare Mater. 1/2017). <i>Advanced Healthcare Materials</i> , 2017 , 6,	10.1	2
107	Hypoxia enhances the viability, growth and chondrogenic potential of cryopreserved human adipose-derived stem cells. <i>Cryobiology</i> , 2017 , 75, 91-99	2.7	35
106	Modulation of osteoblast behavior on nanopatterned yttria-stabilized zirconia surfaces. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 68, 26-31	4.1	6
105	Advances and challenges of fully integrated paper-based point-of-care nucleic acid testing. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 93, 37-50	14.6	61
104	Multiple test zones for improved detection performance in lateral flow assays. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 484-488	8.5	37
103	Paper-based capacitive sensors for identification and quantification of chemicals at the point of care. <i>Talanta</i> , 2017 , 165, 419-428	6.2	10
102	Development of poly (1, 8-octanediol citrate)/chitosan blend films for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2017 , 175, 618-627	10.3	9
101	Lateral Flow Assay Based on Paper-Hydrogel Hybrid Material for Sensitive Point-of-Care Detection of Dengue Virus. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600920	10.1	56
100	Paper-based cell culture platform and its emerging biomedical applications. <i>Materials Today</i> , 2017 , 20, 32-44	21.8	87
99	Oxygen tension modulates the effects of TNF α in compressed chondrocytes. <i>Inflammation Research</i> , 2017 , 66, 49-58	7.2	5
98	Holistic contrast enhancement of carpals ossification sites for skeletal age assessment system. <i>Journal of Engineering</i> , 2017 , 2017, 479-494	0.7	
97	Polymethacrylate Coated Electrospun PHB Fibers as a Functionalized Platform for Bio-Diagnostics: Confirmation Analysis on the Presence of Immobilized IgG Antibodies against Dengue Virus. <i>Sensors</i> , 2017 , 17,	3.8	9
96	Fate of tenogenic differentiation potential of human bone marrow stromal cells by uniaxial stretching affected by stretch-activated calcium channel agonist gadolinium. <i>PLoS ONE</i> , 2017 , 12, e0178117	3.7	11
95	Paracrine Effects of Adipose-Derived Stem Cells on Matrix Stiffness-Induced Cardiac Myofibroblast Differentiation via Angiotensin II Type 1 Receptor and Smad7. <i>Scientific Reports</i> , 2016 , 6, 33067	4.9	40
94	Lubricating ability of albumin and globulin on artificial joint implants: a tribological perspective. <i>International Journal of Surface Science and Engineering</i> , 2016 , 10, 193	1	11

93	Osteogenic differentiation of mesenchymal stem cells on a poly (octanediol citrate)/bioglass composite scaffold in vitro. <i>Materials and Design</i> , 2016 , 109, 434-442	8.1	10
92	Development of biocompatible hydroxyapatite/poly(ethylene glycol) core-shell nanoparticles as an improved drug carrier: structural and electrical characterizations. <i>RSC Advances</i> , 2016 , 6, 102853-102868	3.7	10
91	Osteoblast and stem cell response to nanoscale topographies: a review. <i>Science and Technology of Advanced Materials</i> , 2016 , 17, 698-714	7.1	15
90	Differential osteogenic potential of human adipose-derived stem cells co-cultured with human osteoblasts on polymeric microfiber scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 377-87	5.4	12
89	Recent Advances in Pen-Based Writing Electronics and their Emerging Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 165-180	15.6	72
88	Engineering of microscale three-dimensional pancreatic islet models in vitro and their biomedical applications. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 619-29	9.4	15
87	The effects of hypoxia and serum-free conditions on the stemness properties of human adipose-derived stem cells. <i>Cytotechnology</i> , 2016 , 68, 1859-72	2.2	11
86	Sensitive biomolecule detection in lateral flow assay with a portable temperature-humidity control device. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 98-107	11.8	63
85	Antibacterial properties of poly (octanediol citrate)/gallium-containing bioglass composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 18	4.5	18
84	Polydimethylsiloxane-Paper Hybrid Lateral Flow Assay for Highly Sensitive Point-of-Care Nucleic Acid Testing. <i>Analytical Chemistry</i> , 2016 , 88, 6254-64	7.8	78
83	An integrated lateral flow assay for effective DNA amplification and detection at the point of care. <i>Analyst, The</i> , 2016 , 141, 2930-9	5	70
82	Improved sensitivity of lateral flow assay using paper-based sample concentration technique. <i>Talanta</i> , 2016 , 152, 269-76	6.2	66
81	Human fetal osteoblast cell response to self-assembled nanostructures on YSZ-(110) single crystal substrates. <i>Materials and Design</i> , 2016 , 94, 274-279	8.1	7
80	An integrated paper-based sample-to-answer biosensor for nucleic acid testing at the point of care. <i>Lab on A Chip</i> , 2016 , 16, 611-21	7.2	195
79	Crystallization behavior of tantalum and chlorine co-substituted hydroxyapatite nanopowders. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 33, 316-325	6.3	19
78	Hydrogel-based methods for engineering cellular microenvironment with spatiotemporal gradients. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 553-65	9.4	35
77	Enhanced in vitro angiogenic behaviour of human umbilical vein endothelial cells on thermally oxidized TiO ₂ nanofibrous surfaces. <i>Scientific Reports</i> , 2016 , 6, 21828	4.9	23
76	Mechanochemical preparation and structural characterization of Ta-doped chlorapatite nanopowders. <i>Progress in Natural Science: Materials International</i> , 2016 , 26, 546-554	3.6	5

75	Design and development of an in situ synthesized layered double hydroxide structure of Fe-induced hydroxyapatite for drug carriers. <i>RSC Advances</i> , 2016 , 6, 25549-25561	3.7	9
74	Hydrothermal synthesis and characterisation of bioactive glass-ceramic nanorods. <i>Journal of Non-Crystalline Solids</i> , 2016 , 443, 118-124	3.9	10
73	Review of zirconia-based bioceramic: Surface modification and cellular response. <i>Ceramics International</i> , 2016 , 42, 12543-12555	5.1	97
72	Chondrogenic potential of physically treated bovine cartilage matrix derived porous scaffolds on human dermal fibroblast cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 245-56	5.4	18
71	Fabrication and characterization of poly(octanediol citrate)/gallium-containing bioglass microcomposite scaffolds. <i>Journal of Materials Science</i> , 2015 , 50, 2189-2201	4.3	21
70	Tribological performance of the biological components of synovial fluid in artificial joint implants. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 045002	7.1	24
69	Paper-based sample-to-answer molecular diagnostic platform for point-of-care diagnostics. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 427-39	11.8	101
68	Phenotypic and functional characterization of long-term cryopreserved human adipose-derived stem cells. <i>Scientific Reports</i> , 2015 , 5, 9596	4.9	66
67	Engineering cell microenvironment using novel functional hydrogels. <i>European Polymer Journal</i> , 2015 , 72, 590-601	5.2	13
66	Structural and morphological study of mechanochemically synthesized crystalline nanoneedles of Zr-doped carbonated chlorapatite. <i>Materials Letters</i> , 2015 , 149, 100-104	3.3	12
65	Bioactive glass reinforced elastomer composites for skeletal regeneration: A review. <i>Materials Science and Engineering C</i> , 2015 , 53, 175-88	8.3	58
64	. <i>Proceedings of the IEEE</i> , 2015 , 103, 236-247	14.3	134
63	Mechanoregulation of cardiac myofibroblast differentiation: implications for cardiac fibrosis and therapy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H532-42	5.2	45
62	Cryopreservation of Human Mesenchymal Stem Cells for Clinical Applications: Current Methods and Challenges. <i>Biopreservation and Biobanking</i> , 2015 , 13, 231-9	2.1	47
61	The proliferation and tenogenic differentiation potential of bone marrow-derived mesenchymal stromal cell are influenced by specific uniaxial cyclic tensile loading conditions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015 , 14, 649-63	3.8	32
60	Effect of high-energy ball milling on the formation and microstructural features of carbonated chlorapatite nanopowders. <i>Ceramics International</i> , 2015 , 41, 4750-4758	5.1	6
59	Improved friction and wear performance of micro dimpled ceramic-on-ceramic interface for hip joint arthroplasty. <i>Ceramics International</i> , 2015 , 41, 681-690	5.1	69
58	Endothelial cell responses in terms of adhesion, proliferation, and morphology to stiffness of polydimethylsiloxane elastomer substrates. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2203-13	5.4	46

57	Hydrogel Fibers: Chinese-Noodle-Inspired Muscle Myofiber Fabrication (Adv. Funct. Mater. 37/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 6020-6020	15.6	2
56	In Vitro Study of Surface Modified Poly(ethylene glycol)-Impregnated Sintered Bovine Bone Scaffolds on Human Fibroblast Cells. <i>Scientific Reports</i> , 2015 , 5, 9806	4.9	44
55	High-Throughput Non-Contact Vitrification of Cell-Laden Droplets Based on Cell Printing. <i>Scientific Reports</i> , 2015 , 5, 17928	4.9	17
54	Chinese-Noodle-Inspired Muscle Myofiber Fabrication. <i>Advanced Functional Materials</i> , 2015 , 25, 5999-6008	3.6	48
53	Chondroprotective effect of zinc oxide nanoparticles in conjunction with hypoxia on bovine cartilage-matrix synthesis. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3554-63	5.4	9
52	In situ normoxia enhances survival and proliferation rate of human adipose tissue-derived stromal cells without increasing the risk of tumourigenesis. <i>PLoS ONE</i> , 2015 , 10, e0115034	3.7	47
51	Improved Ultrasound Imaging for Knee Osteoarthritis Detection. <i>Lecture Notes in Bioengineering</i> , 2015 , 1-40	0.8	1
50	Electrospun Biopolyesters as Drug Screening Platforms for Corneal Keratocytes. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015 , 64, 785-791	3	13
49	Tribological investigation of diamond-like carbon coated micro-dimpled surface under bovine serum and osteoarthritis oriented synovial fluid. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 035002	7.1	32
48	Direct writing electrodes using a ball pen for paper-based point-of-care testing. <i>Analyst, The</i> , 2015 , 140, 5526-35	5	58
47	Fabrication of dielectrophoretic microfluidic chips using a facile screen-printing technique for microparticle trapping. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 105015	2	6
46	Evaluation of Surface Properties and In Vitro Characterization of Surface Modified In Situ TiO ₂ Nanofibers. <i>Key Engineering Materials</i> , 2015 , 656-657, 63-67	0.4	
45	Effect of ion concentration on mechanosynthesis of carbonated chlorapatite nanopowders. <i>Materials Letters</i> , 2015 , 146, 16-19	3.3	9
44	Controlled release of C-type natriuretic peptide by microencapsulation dampens proinflammatory effects induced by IL-1 β in cartilage explants. <i>Biomacromolecules</i> , 2015 , 16, 524-31	6.9	10
43	Engineering artificial machines from designable DNA materials for biomedical applications. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 288-97	7.9	5
42	Design and development of potential tissue engineering scaffolds from structurally different longitudinal parts of a bovine-femur. <i>Scientific Reports</i> , 2014 , 4, 5843	4.9	23
41	Engineering physical microenvironment for stem cell based regenerative medicine. <i>Drug Discovery Today</i> , 2014 , 19, 763-73	8.8	48
40	In vitro chondrocyte interactions with TiO ₂ nanofibers grown on Ti β Al β V substrate by oxidation. <i>Ceramics International</i> , 2014 , 40, 8301-8304	5.1	10

39	Advances in paper-based point-of-care diagnostics. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 585-97	11.8	696
38	Synthesis of upconversion NaYF ₄ :Yb ³⁺ ,Er ³⁺ particles with enhanced luminescent intensity through control of morphology and phase. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3671-3676	7.1	54
37	Role of C-type natriuretic peptide signalling in maintaining cartilage and bone function. <i>Osteoarthritis and Cartilage</i> , 2014 , 22, 1800-7	6.2	32
36	Osteogenic potential of in situ TiO ₂ nanowire surfaces formed by thermal oxidation of titanium alloy substrate. <i>Applied Surface Science</i> , 2014 , 320, 161-170	6.7	17
35	Archimedes revisited: computer assisted micro-volumetric modification of the liquid displacement method for porosity measurement of highly porous light materials. <i>Analytical Methods</i> , 2014 , 6, 4396-4401	3.2	11
34	Gradual mechanochemical reaction to produce carbonate doped fluorapatite/titania composite nanopowder. <i>Ceramics International</i> , 2014 , 40, 15623-15631	5.1	11
33	Processing and characterization of elastomeric polycaprolactone triol/citrate coatings for biomedical applications. <i>Progress in Organic Coatings</i> , 2014 , 77, 821-829	4.8	12
32	Polyoctanediol citrate/ZnO composite films: Preparation, characterization and release kinetics of nanoparticles from polymer matrix. <i>Materials Letters</i> , 2014 , 126, 165-168	3.3	12
31	Fabrication and characterization of micro-dimple array on Al ₂ O ₃ surfaces by using a micro-tooling. <i>Ceramics International</i> , 2014 , 40, 2381-2388	5.1	50
30	Tribological role of synovial fluid compositions on artificial joints: A systematic review of the last 10 years. <i>Lubrication Science</i> , 2014 , 26, 387-410	1.3	46
29	Contrast enhancement of ultrasound imaging of the knee joint cartilage for early detection of knee osteoarthritis. <i>Biomedical Signal Processing and Control</i> , 2014 , 13, 157-167	4.9	18
28	Proliferation and stemness preservation of human adipose-derived stem cells by surface-modified in situ TiO ₂ nanofibrous surfaces. <i>International Journal of Nanomedicine</i> , 2014 , 9, 5389-401	7.3	13
27	Surface Properties and Cell Response of Bioactive Thermally Grown TiO ₂ Nanofibers. <i>Applied Mechanics and Materials</i> , 2014 , 575, 219-222	0.3	
26	A comparison study of different physical treatments on cartilage matrix derived porous scaffolds for tissue engineering applications. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 065001	7.1	13
25	Impact of low oxygen tension on stemness, proliferation and differentiation potential of human adipose-derived stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 448, 218-24	3.4	103
24	New method for the isolation of endothelial cells from large vessels. <i>Cytotherapy</i> , 2014 , 16, 1145-52	4.8	10
23	Extracellular matrix integrity affects the mechanical behaviour of in-situ chondrocytes under compression. <i>Journal of Biomechanics</i> , 2014 , 47, 1004-13	2.9	24
22	Tenocyte anabolic and catabolic response to elevation in intracellular tension. <i>Journal of Biorheology</i> , 2014 , 28, 16-20	0.3	2

21	The properties of chondrocyte membrane reservoirs and their role in impact-induced cell death. <i>Biophysical Journal</i> , 2013 , 105, 1590-600	2.9	13
20	Dual photon excitation microscopy and image threshold segmentation in live cell imaging during compression testing. <i>Journal of Biomechanics</i> , 2013 , 46, 2024-31	2.9	12
19	Fabrication and characterization of elastomeric scaffolds comprised of a citric acid-based polyester/hydroxyapatite microcomposite. <i>Materials & Design</i> , 2013 , 50, 446-450		21
18	Advances in fabrication of TiO ₂ nanofiber/nanowire arrays toward the cellular response in biomedical implantations: a review. <i>Journal of Materials Science</i> , 2013 , 48, 8337-8353	4.3	36
17	Effects of serum reduction and VEGF supplementation on angiogenic potential of human adipose stromal cells in vitro. <i>Cell Proliferation</i> , 2013 , 46, 300-11	7.9	15
16	Low oxygen tension increased fibronectin fragment induced catabolic activities--response prevented with biomechanical signals. <i>Arthritis Research and Therapy</i> , 2013 , 15, R163	5.7	6
15	A Novel Glass Polyalkenoate Cement for Fixation and Stabilisation of the Ribcage, Post Sternotomy Surgery: An ex-Vivo Study. <i>Journal of Functional Biomaterials</i> , 2013 , 4, 329-57	4.8	15
14	Evaluation of copper concentration in subclinical cases of white muscle disease and its relationship with cardiac troponin I. <i>PLoS ONE</i> , 2013 , 8, e56163	3.7	6
13	Mechanical behaviour of in-situ chondrocytes subjected to different loading rates: a finite element study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 983-93	3.8	31
12	Progress of key strategies in development of electrospun scaffolds: bone tissue. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 043002	7.1	43
11	Review of titania nanotubes: Fabrication and cellular response. <i>Ceramics International</i> , 2012 , 38, 4421-4435	4.5	178
10	Morphological Change of Heat Treated Bovine Bone: A Comparative Study. <i>Materials</i> , 2012 , 6, 65-75	3.5	35
9	In vitro comparative study of white and dark polycaprolactone trifumarate in situ cross-linkable scaffolds seeded with rat bone marrow stromal cells. <i>Clinics</i> , 2012 , 67, 629-38	2.3	8
8	Upregulation of matrix synthesis in chondrocyte-seeded agarose following sustained bi-axial cyclic loading. <i>Clinics</i> , 2012 , 67, 939-44	2.3	9
7	The metabolic dynamics of cartilage explants over a long-term culture period. <i>Clinics</i> , 2011 , 66, 1431-6	2.3	9
6	Human amnion as a novel cell delivery vehicle for chondrogenic mesenchymal stem cells. <i>Cell and Tissue Banking</i> , 2011 , 12, 59-70	2.2	25
5	Design and validation of a bi-axial loading bioreactor for mechanical stimulation of engineered cartilage. <i>Medical Engineering and Physics</i> , 2011 , 33, 782-8	2.4	19
4	Investigation to predict patellar tendon reflex using motion analysis technique. <i>Medical Engineering and Physics</i> , 2011 , 33, 407-10	2.4	10

- 3 Polyvinyl alcohol as a viable membrane in artificial tissue design and development. *Clinics*, **2011**, 66, 1482-94 5
- 2 Cyclic compression of chondrocytes modulates a purinergic calcium signalling pathway in a strain rate- and frequency-dependent manner. *Journal of Cellular Physiology*, **2006**, 209, 389-97 7 75
- 1 Activation of chondrocytes calcium signalling by dynamic compression is independent of number of cycles. *Archives of Biochemistry and Biophysics*, **2005**, 444, 45-51 4.1 44