Catherine Picart

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
papers8,753
citations51
h-index92
g-index129
ext. papers9,568
ext. citations8.8
avg, IF6.11
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 120 | Differential bioactivity of four BMP-family members as function of biomaterial stiffness <i>Biomaterials</i> , 2022 , 281, 121363 | 15.6 | 2 |
| 119 | High-throughput measurements of bone morphogenetic protein/bone morphogenetic protein receptor interactions using biolayer interferometry. <i>Biointerphases</i> , 2021 , 16, 031001 | 1.8 | 1 |
| 118 | Additive Manufacturing of Material Scaffolds for Bone Regeneration: Toward Application in the Clinics. <i>Advanced Functional Materials</i> , 2021 , 31, 2006967 | 15.6 | 32 |
| 117 | Osteogenic Differentiation of Adipose-Derived Stromal Cells: From Bench to Clinics. <i>Tissue Engineering - Part B: Reviews</i> , 2020 , 26, 461-474 | 7.9 | 1 |
| 116 | Heparan sulfate co-immobilized with cRGD ligands and BMP2 on biomimetic platforms promotes BMP2-mediated osteogenic differentiation. <i>Acta Biomaterialia</i> , 2020 , 114, 90-103 | 10.8 | 7 |
| 115 | Learning from BMPs and their biophysical extracellular matrix microenvironment for biomaterial design. <i>Bone</i> , 2020 , 141, 115540 | 4.7 | 8 |
| 114 | Design of experiments to assess the effect of culture parameters on the osteogenic differentiation of human adipose stromal cells. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 256 | 8.3 | 9 |
| 113 | Age-dependent migratory behavior of human endothelial cells revealed by substrate microtopography. <i>Experimental Cell Research</i> , 2019 , 374, 1-11 | 4.2 | 7 |
| 112 | Role of Phosphorylation in Moesin Interactions with PIP-Containing Biomimetic Membranes. <i>Biophysical Journal</i> , 2018 , 114, 98-112 | 2.9 | 8 |
| 111 | The effect of hydration on the material and mechanical properties of cellulose nanocrystal-alginate composites. <i>Carbohydrate Polymers</i> , 2018 , 179, 186-195 | 10.3 | 21 |
| 110 | Bone regeneration strategies: Engineered scaffolds, bioactive molecules and stem cells current stage and future perspectives. <i>Biomaterials</i> , 2018 , 180, 143-162 | 15.6 | 334 |
| 109 | Geometrical confinement controls the asymmetric patterning of brachyury in cultures of pluripotent cells. <i>Development (Cambridge)</i> , 2018 , 145, | 6.6 | 30 |
| 108 | Solvent-free preparation of porous poly(l-lactide) microcarriers for cell culture. <i>Acta Biomaterialia</i> , 2018 , 75, 300-311 | 10.8 | 16 |
| 107 | Practical guide to characterize biomolecule adsorption on solid surfaces (Review). <i>Biointerphases</i> , 2018 , 13, 06D303 | 1.8 | 30 |
| 106 | Automated Buildup of Biomimetic Films in Cell Culture Microplates for High-Throughput Screening of Cellular Behaviors. <i>Advanced Materials</i> , 2018 , 30, e1801097 | 24 | 24 |
| 105 | Binding of the chemokine CXCL12Ho its natural extracellular matrix ligand heparan sulfate enables myoblast adhesion and facilitates cell motility. <i>Biomaterials</i> , 2017 , 123, 24-38 | 15.6 | 12 |
| 104 | Signal mingle: Micropatterns of BMP-2 and fibronectin on soft biopolymeric films regulate myoblast shape and SMAD signaling. <i>Scientific Reports</i> , 2017 , 7, 41479 | 4.9 | 21 |

(2015-2017)

| 103 | Biomaterial-enabled delivery of SDF-1th the ventral side of breast cancer cells reveals a crosstalk between cell receptors to promote the invasive phenotype. <i>Biomaterials</i> , 2017 , 127, 61-74 | 15.6 | 19 |
|-----|--|------|----|
| 102 | Tunable Structural and Mechanical Properties of Cellulose Nanofiber Substrates in Aqueous Conditions for Stem Cell Culture. <i>Biomacromolecules</i> , 2017 , 18, 2034-2044 | 6.9 | 28 |
| 101 | Multiscale Porosity Directs Bone Regeneration in Biphasic Calcium Phosphate Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2768-2778 | 5.5 | 24 |
| 100 | Quiescence of human muscle stem cells is favored by culture on natural biopolymeric films. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 104 | 8.3 | 15 |
| 99 | Micropore-induced capillarity enhances bone distribution in vivo in biphasic calcium phosphate scaffolds. <i>Acta Biomaterialia</i> , 2016 , 44, 144-54 | 10.8 | 60 |
| 98 | Stiffness-dependent cellular internalization of matrix-bound BMP-2 and its relation to Smad and non-Smad signaling. <i>Acta Biomaterialia</i> , 2016 , 46, 55-67 | 10.8 | 22 |
| 97 | Substrate Stiffness Combined with Hepatocyte Growth Factor Modulates Endothelial Cell Behavior. <i>Biomacromolecules</i> , 2016 , 17, 2767-76 | 6.9 | 31 |
| 96 | Control of the Proliferation/Differentiation Balance in Skeletal Myoblasts by Integrin and Syndecan Targeting Peptides. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 415-425 | 5.5 | 2 |
| 95 | B integrin-mediated spreading induced by matrix-bound BMP-2 controls Smad signaling in a stiffness-independent manner. <i>Journal of Cell Biology</i> , 2016 , 212, 693-706 | 7.3 | 52 |
| 94 | Assessment of a polyelectrolyte multilayer film coating loaded with BMP-2 on titanium and PEEK implants in the rabbit femoral condyle. <i>Acta Biomaterialia</i> , 2016 , 36, 310-22 | 10.8 | 46 |
| 93 | Tuning cellular responses to BMP-2 with material surfaces. <i>Cytokine and Growth Factor Reviews</i> , 2016 , 27, 43-54 | 17.9 | 55 |
| 92 | Functional characterization of p7 viroporin from hepatitis C virus produced in a cell-free expression system. <i>Protein Expression and Purification</i> , 2016 , 118, 83-91 | 2 | 6 |
| 91 | Surface delivery of tunable doses of BMP-2 from an adaptable polymeric scaffold induces volumetric bone regeneration. <i>Biomaterials</i> , 2016 , 104, 168-81 | 15.6 | 96 |
| 90 | Layer-by-Layer Assemblies for Cancer Treatment and Diagnosis. <i>Advanced Materials</i> , 2016 , 28, 1295-301 | 1 24 | 67 |
| 89 | Self assembly of HIV-1 Gag protein on lipid membranes generates PI(4,5)P/Cholesterol nanoclusters. <i>Scientific Reports</i> , 2016 , 6, 39332 | 4.9 | 35 |
| 88 | Quick and easy microfabrication of T-shaped cantilevers to generate arrays of microtissues. <i>Biomedical Microdevices</i> , 2016 , 18, 43 | 3.7 | 6 |
| 87 | Construction and myogenic differentiation of 3D myoblast tissues fabricated by fibronectin-gelatin nanofilm coating. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 474, 515-521 | 3.4 | 17 |
| 86 | Layer-by-Layer Microcapsules Based on Functional Polysaccharides 2015 , 295-308 | | |

85 Photocrosslinked Polyelectrolyte Films of ControlledStiffness to Direct Cell Behavior **2015**, 45-64

| 84 | Myoconductive and osteoinductive free-standing polysaccharide membranes. <i>Acta Biomaterialia</i> , 2015 , 15, 139-49 | 10.8 | 51 |
|----|---|-----------------|-----|
| 83 | Spatio-Temporal Control of LbL Films for Biomedical Applications: From 2D to 3D. <i>Advanced Healthcare Materials</i> , 2015 , 4, 811-30 | 10.1 | 57 |
| 82 | Matrix-Bound Presentation of Bone Morphogenetic Protein 2 by Multilayer Films: Fundamental Studies and Applicationsto Orthopedics 2015 , 453-486 | | |
| 81 | Tailored freestanding multilayered membranes based on chitosan and alginate. <i>Biomacromolecules</i> , 2014 , 15, 3817-26 | 6.9 | 70 |
| 80 | Nanostructured polymeric coatings based on chitosan and dopamine-modified hyaluronic acid for biomedical applications. <i>Small</i> , 2014 , 10, 2459-69 | 11 | 131 |
| 79 | Spatial patterning of BMP-2 and BMP-7 on biopolymeric films and the guidance of muscle cell fate. <i>Biomaterials</i> , 2014 , 35, 3975-85 | 15.6 | 59 |
| 78 | The effect of delivering the chemokine SDF-1∄n a matrix-bound manner on myogenesis. Biomaterials, 2014 , 35, 4525-4535 | 15.6 | 33 |
| 77 | Microfabrication of a platform to measure and manipulate the mechanics of engineered microtissues. <i>Methods in Cell Biology</i> , 2014 , 121, 191-211 | 1.8 | 23 |
| 76 | The stability of BMP loaded polyelectrolyte multilayer coatings on titanium. <i>Biomaterials</i> , 2013 , 34, 573 | 7£ 4 .66 | 80 |
| 75 | Cyclodextrin/Paclitaxel Complex in Biodegradable Capsules for Breast Cancer Treatment. <i>Chemistry of Materials</i> , 2013 , 25, 3867-3873 | 9.6 | 56 |
| 74 | Influence of polyelectrolyte film stiffness on bacterial growth. <i>Biomacromolecules</i> , 2013 , 14, 520-8 | 6.9 | 43 |
| 73 | Effect of RGD functionalization and stiffness modulation of polyelectrolyte multilayer films on muscle cell differentiation. <i>Acta Biomaterialia</i> , 2013 , 9, 6468-80 | 10.8 | 49 |
| 72 | Rigidity-patterned polyelectrolyte films to control myoblast cell adhesion and spatial organization. <i>Advanced Functional Materials</i> , 2013 , 23, 3432-3442 | 15.6 | 29 |
| 71 | Free-standing polyelectrolyte membranes made of chitosan and alginate. <i>Biomacromolecules</i> , 2013 , 14, 1653-60 | 6.9 | 117 |
| 70 | Gradients of physical and biochemical cues on polyelectrolyte multilayer films generated via microfluidics. <i>Lab on A Chip</i> , 2013 , 13, 1562-70 | 7.2 | 52 |
| 69 | Model membranes to shed light on the biochemical and physical properties of ezrin/radixin/moesin. <i>Biochimie</i> , 2013 , 95, 3-11 | 4.6 | 9 |
| 68 | Polyelectrolyte multilayer nanoshells with hydrophobic nanodomains for delivery of Paclitaxel. Journal of Controlled Release, 2012 , 159, 403-412 | 11.7 | 35 |
| | | | |

Polyelectrolyte Multilayer Films Based on Polysaccharides: From Physical Chemistry to the Control 67 of Cell Differentiation 2012, 659-690 In situ synthesis of gold nanoparticles in exponentially-growing layer-by-layer films. Journal of 66 16 9.3 Colloid and Interface Science, 2012, 388, 56-66 Binding of moesin and ezrin to membranes containing phosphatidylinositol (4,5) bisphosphate: a comparative study of the affinity constants and conformational changes. Biochimica Et Biophysica 65 3.8 14 Acta - Biomembranes, 2012, 1818, 2839-49 Polyelectrolyte Multilayer Assemblies on Materials Surfaces: From Cell Adhesion to Tissue 64 9.6 267 Engineering. Chemistry of Materials, 2012, 24, 854-869 Secondary structure of rhBMP-2 in a protective biopolymeric carrier material. Biomacromolecules, 6.9 63 29 2012. 13. 3620-6 Asymmetric free-standing film with multifunctional anti-bacterial and self-cleaning properties. ACS 62 9.5 113 Applied Materials & Interfaces, 2012, 4, 4476-83 Engineering muscle tissues on microstructured polyelectrolyte multilayer films. Tissue Engineering -61 3.9 34 Part A, 2012, 18, 1664-76 Activation of moesin, a protein that links actin cytoskeleton to the plasma membrane, occurs by phosphatidylinositol 4,5-bisphosphate (PIP2) binding sequentially to two sites and releasing an 60 5.4 39 autoinhibitory linker. Journal of Biological Chemistry, 2012, 287, 16311-23 Polyelectrolyte Multilayer Films [A General Approach to (Bio)functional Coatings 2011, 1249-1305 59 3 A material point of view on recent developments of polymeric biomaterials: control of mechanical 58 43 and biochemical properties. Journal of Materials Chemistry, 2011, 21, 14354-14366 The performance of BMP-2 loaded TCP/HAP porous ceramics with a polyelectrolyte multilayer film 57 15.6 118 coating. Biomaterials, 2011, 32, 7543-54 Polyelectrolyte multilayer nanofilms used as thin materials for cell mechano-sensitivity studies. 56 5.5 42 Macromolecular Bioscience, **2011**, 11, 77-89 Presentation of BMP-2 from a soft biopolymeric film unveils its activity on cell adhesion and 102 55 24 migration. Advanced Materials, 2011, 23, H111-8 Hydrophobic shell loading of biopolyelectrolyte capsules. Advanced Materials, 2011, 23, H200-4 24 54 33 DRUG DELIVERY: Presentation of BMP-2 from a Soft Biopolymeric Film Unveils its Activity on Cell 24 2 53 Adhesion and Migration (Adv. Mater. 12/2011). Advanced Materials, 2011, 23, H110-H110 Drug Delivery: Hydrophobic Shell Loading of Biopolyelectrolyte Capsules (Adv. Mater. 24/2011). 52 24 Advanced Materials, 2011, 23, H130-H130 pH-Amplified multilayer films based on hyaluronan: influence of HA molecular weight and 51 6.9 56 concentration on film growth and stability. Biomacromolecules, 2011, 12, 1322-31 Surface functionalization of hyaluronic acid hydrogels by polyelectrolyte multilayer films. 50 15.6 92 Biomaterials, 2011, 32, 5590-9

| 49 | Phosphatidylinositol 4,5-bisphosphate-induced conformational change of ezrin and formation of ezrin oligomers. <i>Biochemistry</i> , 2010 , 49, 9318-27 | 3.2 | 13 |
|----|---|------|-----|
| 48 | Humidity responsive asymmetric free-standing multilayered film. <i>Langmuir</i> , 2010 , 26, 16634-7 | 4 | 33 |
| 47 | Designing hyaluronic acid-based layer-by-layer capsules as a carrier for intracellular drug delivery. <i>Biomacromolecules</i> , 2010 , 11, 713-20 | 6.9 | 108 |
| 46 | Manipulation of the adhesive behaviour of skeletal muscle cells on soft and stiff polyelectrolyte multilayers. <i>Acta Biomaterialia</i> , 2010 , 6, 4238-48 | 10.8 | 56 |
| 45 | Polysaccharide-based polyelectrolyte multilayers. <i>Current Opinion in Colloid and Interface Science</i> , 2010 , 15, 417-426 | 7.6 | 149 |
| 44 | Contact-Killing Polyelectrolyte Microcapsules Based on Chitosan Derivatives. <i>Advanced Functional Materials</i> , 2010 , 20, 3303-3312 | 15.6 | 44 |
| 43 | Multiple functionalities of polyelectrolyte multilayer films: new biomedical applications. <i>Advanced Materials</i> , 2010 , 22, 441-67 | 24 | 610 |
| 42 | Nano-scale control of cellular environment to drive embryonic stem cells selfrenewal and fate. <i>Biomaterials</i> , 2010 , 31, 1742-50 | 15.6 | 47 |
| 41 | Polysaccharide-blend multilayers containing hyaluronan and heparin as a delivery system for rhBMP-2. <i>Small</i> , 2010 , 6, 651-62 | 11 | 55 |
| 40 | Self assembling and crosslinking of polyelectrolyte multilayer films of chitosan and alginate studied by QCM and IR spectroscopy. <i>Macromolecular Bioscience</i> , 2009 , 9, 776-85 | 5.5 | 111 |
| 39 | Layer-by-layer films as a biomimetic reservoir for rhBMP-2 delivery: controlled differentiation of myoblasts to osteoblasts. <i>Small</i> , 2009 , 5, 598-608 | 11 | 215 |
| 38 | Variation of polyelectrolyte film stiffness by photo-cross-linking: a new way to control cell adhesion. <i>Langmuir</i> , 2009 , 25, 3556-63 | 4 | 74 |
| 37 | Internal composition versus the mechanical properties of polyelectrolyte multilayer films: the influence of chemical cross-linking. <i>Langmuir</i> , 2009 , 25, 13809-19 | 4 | 75 |
| 36 | Alkylamino hydrazide derivatives of hyaluronic acid: synthesis, characterization in semidilute aqueous solutions, and assembly into thin multilayer films. <i>Biomacromolecules</i> , 2009 , 10, 2875-84 | 6.9 | 18 |
| 35 | Ion pairing and hydration in polyelectrolyte multilayer films containing polysaccharides. <i>Biomacromolecules</i> , 2009 , 10, 433-42 | 6.9 | 126 |
| 34 | Quantitative analysis of the binding of ezrin to large unilamellar vesicles containing phosphatidylinositol 4,5 bisphosphate. <i>Biophysical Journal</i> , 2008 , 94, 1021-33 | 2.9 | 47 |
| 33 | Giant unilamellar vesicles containing phosphatidylinositol(4,5)bisphosphate: characterization and functionality. <i>Biophysical Journal</i> , 2008 , 95, 4348-60 | 2.9 | 79 |
| 32 | Dynamics of poly(L-lysine) in hyaluronic acid/poly(L-lysine) multilayer films studied by fluorescence recovery after pattern photobleaching. <i>Langmuir</i> , 2008 , 24, 7842-7 | 4 | 65 |

(2004-2008)

| 31 | Polyelectrolyte multilayer films: from physico-chemical properties to the control of cellular processes. <i>Current Medicinal Chemistry</i> , 2008 , 15, 685-97 | 4.3 | 175 |
|----|--|------|-----|
| 30 | Multilayer assembly of hyaluronic acid/poly(allylamine): control of the buildup for the production of hollow capsules. <i>Langmuir</i> , 2008 , 24, 9767-74 | 4 | 48 |
| 29 | Polyelectrolyte multilayer films of controlled stiffness modulate myoblast cells differentiation. <i>Advanced Functional Materials</i> , 2008 , 18, 1378-1389 | 15.6 | 220 |
| 28 | Layer-by-layer films from hyaluronan and amine-modified hyaluronan. <i>Langmuir</i> , 2007 , 23, 2655-62 | 4 | 45 |
| 27 | Multifunctional polyelectrolyte multilayer films: combining mechanical resistance, biodegradability, and bioactivity. <i>Biomacromolecules</i> , 2007 , 8, 139-45 | 6.9 | 117 |
| 26 | Measuring mechanical properties of polyelectrolyte multilayer thin films: Novel methods based on AFM and optical techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 303, 30-36 | 5.1 | 51 |
| 25 | Cytotoxicity of polyethyleneimine (PEI), precursor base layer of polyelectrolyte multilayer films. <i>Biomaterials</i> , 2007 , 28, 632-40 | 15.6 | 163 |
| 24 | Elasticity, biodegradability and cell adhesive properties of chitosan/hyaluronan multilayer films. <i>Biomedical Materials (Bristol)</i> , 2007 , 2, S45-51 | 3.5 | 82 |
| 23 | Stiffening of Soft Polyelectrolyte Architectures by Multilayer Capping Evidenced by Viscoelastic Analysis of AFM Indentation Measurements. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8299-8306 | 3.8 | 52 |
| 22 | An extended modeling of the micropipette aspiration experiment for the characterization of the Young's modulus and Poisson's ratio of adherent thin biological samples: numerical and experimental studies. <i>Journal of Biomechanics</i> , 2006 , 39, 1677-85 | 2.9 | 64 |
| 21 | Effect of crosslinking on the elasticity of polyelectrolyte multilayer films measured by colloidal probe AFM. <i>Microscopy Research and Technique</i> , 2006 , 69, 84-92 | 2.8 | 79 |
| 20 | Polyelectrolyte multilayers with a tunable Young modulus: influence of film stiffness on cell adhesion. <i>Langmuir</i> , 2006 , 22, 1193-200 | 4 | 279 |
| 19 | Glycated polyelectrolyte multilayer films: differential adhesion of primary versus tumor cells. <i>Biomacromolecules</i> , 2006 , 7, 2882-9 | 6.9 | 27 |
| 18 | Imaging cell interactions with native and crosslinked polyelectrolyte multilayers. <i>Cell Biochemistry and Biophysics</i> , 2006 , 44, 273-85 | 3.2 | 50 |
| 17 | Degradability of polysaccharides multilayer films in the oral environment: an in vitro and in vivo study. <i>Biomacromolecules</i> , 2005 , 6, 726-33 | 6.9 | 116 |
| 16 | Natural polyelectrolyte films based on layer-by layer deposition of collagen and hyaluronic acid. <i>Biomaterials</i> , 2005 , 26, 3353-61 | 15.6 | 189 |
| 15 | Application of fluorescence recovery after photobleaching to diffusion of a polyelectrolyte in a multilayer film. <i>Microscopy Research and Technique</i> , 2005 , 66, 43-57 | 2.8 | 43 |
| 14 | Primary osteoblasts adhesion onto RGD-functionalized and cross-linked polyelectrolyte multilayer films. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 823, W12.1.1 | | |

| 13 | pH dependent growth of poly(L-lysine)/poly(L-glutamic) acid multilayer films and their cell adhesion properties. <i>Surface Science</i> , 2004 , 570, 13-29 | 1.8 | 139 |
|----|---|-------------------------|-----|
| 12 | Surface probe measurements of the elasticity of sectioned tissue, thin gels and polyelectrolyte multilayer films: Correlations between substrate stiffness and cell adhesion. <i>Surface Science</i> , 2004 , 570, 142-154 | 1.8 | 275 |
| 11 | Measurement of film thickness up to several hundreds of nanometers using optical waveguide lightmode spectroscopy. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 553-61 | 11.8 | 53 |
| 10 | Layer by layer buildup of polysaccharide films: physical chemistry and cellular adhesion aspects. <i>Langmuir</i> , 2004 , 20, 448-58 | 4 | 450 |
| 9 | Modeling the Buildup of Polyelectrolyte Multilayer Films Having Exponential Growth?. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 635-648 | 3.4 | 247 |
| 8 | Improvement of stability and cell adhesion properties of polyelectrolyte multilayer films by chemical cross-linking. <i>Biomacromolecules</i> , 2004 , 5, 284-94 | 6.9 | 375 |
| 7 | Microinterferometric Study of the Structure, Interfacial Potential, and Viscoelastic Properties of Polyelectrolyte Multilayer Films on a Planar Substrate. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7196- | 7 3 2 0 5 | 35 |
| 6 | Elasticity of native and cross-linked polyelectrolyte multilayer films. <i>Biomacromolecules</i> , 2004 , 5, 1908- | 16 .9 | 214 |
| 5 | 3-D surface charges modulate protrusive and contractile contacts of chondrosarcoma cells. <i>Cytoskeleton</i> , 2003 , 56, 147-58 | | 29 |
| 4 | Actin protofilament orientation in deformation of the erythrocyte membrane skeleton. <i>Biophysical Journal</i> , 2000 , 79, 2987-3000 | 2.9 | 29 |
| 3 | Blood yield stress in systemic sclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H771-7 | 5.2 | 7 |
| 2 | Actin protofilament orientation at the erythrocyte membrane. <i>Biophysical Journal</i> , 1999 , 77, 865-78 | 2.9 | 28 |
| 1 | Human blood shear yield stress and its hematocrit dependence. <i>Journal of Rheology</i> , 1998 , 42, 1-12 | 4.1 | 97 |