

Gregory D Jay

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

5,334
citations

94433

37
h-index

91884

69
g-index

114
all docs

114
docs citations

114
times ranked

3421
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Quadruped Gait and Regulation of Apoptotic Factors in Tibiofemoral Joints following Intra-Articular rhPRG4 Injection in Prg4 Null Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4245. | 4.1 | 2 |
| 2 | Proteoglycan-4 and hyaluronan composition in synovial fluid and serum from clinical equine subjects: relationship to cartilage boundary lubrication and viscosity of synovial fluid. <i>Connective Tissue Research</i> , 2021, 62, 369-380. | 2.3 | 8 |
| 3 | Proteoglycan 4 Reduces Neuroinflammation and Protects the Blood-Brain Barrier after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 385-398. | 3.4 | 11 |
| 4 | Recombinant Human Proteoglycan-4 Regulates Phagocytic Activation of Monocytes and Reduces IL-1 β Secretion by Urate Crystal Stimulated PBMCs. <i>FASEB Journal</i> , 2021, 35, . | 0.5 | 0 |
| 5 | The role of synovial fluid constituents in the lubrication of collagen-glycosaminoglycan scaffolds for cartilage repair. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 118, 104445. | 3.1 | 4 |
| 6 | Prediction of anemia and estimation of hemoglobin concentration using a smartphone camera. <i>PLoS ONE</i> , 2021, 16, e0253495. | 2.5 | 20 |
| 7 | Proteoglycan 4 (PRG4) expression and function in dry eye associated inflammation. <i>Experimental Eye Research</i> , 2021, 208, 108628. | 2.6 | 22 |
| 8 | Proteoglycan-4 is an essential regulator of synovial macrophage polarization and inflammatory macrophage joint infiltration. <i>Arthritis Research and Therapy</i> , 2021, 23, 241. | 3.5 | 18 |
| 9 | Efficient Detection of Severe Acute Respiratory Syndrome-Coronavirus 2 (SARS-CoV-2) from Exhaled Breath. <i>Journal of Molecular Diagnostics</i> , 2021, 23, 1661-1670. | 2.8 | 6 |
| 10 | Titration of Parameters in Shared Ventilation With a Portable Ventilator. <i>Respiratory Care</i> , 2021, 66, 758-768. | 1.6 | 5 |
| 11 | Recombinant Human Proteoglycan 4 Regulates Phagocytic Activation of Monocytes and Reduces IL-1 β Secretion by Urate Crystal Stimulated Gout PBMCs. <i>Frontiers in Immunology</i> , 2021, 12, 771677. | 4.8 | 10 |
| 12 | Proteomics Analysis of Tears and Saliva From Sjogren's Syndrome Patients. <i>Frontiers in Pharmacology</i> , 2021, 12, 787193. | 3.5 | 23 |
| 13 | Localization of full-length recombinant human proteoglycan-4 in commercial contact lenses using confocal microscopy. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 110-122. | 3.5 | 2 |
| 14 | Lubricin as a Therapeutic and Potential Biomarker in Sepsis. <i>Critical Care Clinics</i> , 2020, 36, 55-67. | 2.6 | 9 |
| 15 | Recombinant Human Proteoglycan-4 Mediates Interleukin-6 Response in Both Human and Mouse Endothelial Cells Induced Into a Sepsis Phenotype. , 2020, 2, e0126. | | 4 |
| 16 | Decrease of core 2 O-glycans on synovial lubricin in osteoarthritis reduces galectin-3 mediated crosslinking. <i>Journal of Biological Chemistry</i> , 2020, 295, 16023-16036. | 3.4 | 7 |
| 17 | Proteoglycan-4 regulates fibroblast to myofibroblast transition and expression of fibrotic genes in the synovium. <i>Arthritis Research and Therapy</i> , 2020, 22, 113. | 3.5 | 29 |
| 18 | Cathepsin g Degrades Both Glycosylated and Unglycosylated Regions of Lubricin, a Synovial Mucin. <i>Scientific Reports</i> , 2020, 10, 4215. | 3.3 | 14 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | The Effect of Intense Exercise on Equine Serum Proteoglycan-4/Lubricin. <i>Frontiers in Veterinary Science</i> , 2020, 7, 599287. | 2.2 | 0 |
| 20 | Recombinant human PRG4 (rhPRG4) suppresses breast cancer cell invasion by inhibiting TGF β ² -Hyaluronan-CD44 signalling pathway. <i>PLoS ONE</i> , 2019, 14, e0219697. | 2.5 | 27 |
| 21 | Two compartment pharmacokinetic model describes the intra-articular delivery and retention of rhprg4 following ACL transection in the Yucatan mini pig. <i>Journal of Orthopaedic Research</i> , 2019, 37, 386-396. | 2.3 | 14 |
| 22 | Absence of Proteoglycan 4 (<i>Prg4</i>) Leads to Increased Subchondral Bone Porosity Which Can Be Mitigated Through Intra-articular Injection of PRG4. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2077-2088. | 2.3 | 16 |
| 23 | Interactions between Lubricin and Hyaluronic Acid Synergistically Enhance Antiadhesive Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18090-18102. | 8.0 | 33 |
| 24 | Probing the Molecular Interactions and Lubrication Mechanisms of Purified Full-Length Recombinant Human Proteoglycan 4 (rhPRG4) and Hyaluronic Acid (HA). <i>Biomacromolecules</i> , 2019, 20, 1056-1067. | 5.4 | 20 |
| 25 | Preclinical Animal Studies of Intravesical Recombinant Human Proteoglycan 4 as a Novel Potential Therapy for Diseases Resulting From Increased Bladder Permeability. <i>Urology</i> , 2018, 116, 230.e1-230.e7. | 1.0 | 10 |
| 26 | Role of CD44 in Regulating TLR2 Activation of Human Macrophages and Downstream Expression of Proinflammatory Cytokines. <i>Journal of Immunology</i> , 2018, 200, 758-767. | 0.8 | 53 |
| 27 | Recombinant human proteoglycan-4 reduces phagocytosis of urate crystals and downstream nuclear factor kappa B and inflammasome activation and production of cytokines and chemokines in human and murine macrophages. <i>Arthritis Research and Therapy</i> , 2018, 20, 192. | 3.5 | 40 |
| 28 | cAMP attenuates TGF- β 's profibrotic responses in osteoarthritic synoviocytes: involvement of hyaluronan and PRG4. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C432-C443. | 4.6 | 25 |
| 29 | Reduction of friction by recombinant human proteoglycan 4 in IL-1 β stimulated bovine cartilage explants. <i>Journal of Orthopaedic Research</i> , 2017, 35, 580-589. | 2.3 | 14 |
| 30 | The autocrine role of proteoglycan-4 (PRG4) in modulating osteoarthritic synoviocyte proliferation and expression of matrix degrading enzymes. <i>Arthritis Research and Therapy</i> , 2017, 19, 89. | 3.5 | 68 |
| 31 | Degradation of proteoglycan 4/lubricin by cathepsin S: Potential mechanism for diminished ocular surface lubrication in Sjögren's syndrome. <i>Experimental Eye Research</i> , 2017, 161, 1-9. | 2.6 | 37 |
| 32 | Intra-articular Recombinant Human Proteoglycan 4 Mitigates Cartilage Damage After Destabilization of the Medial Meniscus in the Yucatan Minipig. <i>American Journal of Sports Medicine</i> , 2017, 45, 1512-1521. | 4.2 | 55 |
| 33 | Recombinant human lubricin for prevention of postoperative intra-abdominal adhesions in a rat model. <i>Journal of Surgical Research</i> , 2017, 208, 20-25. | 1.6 | 20 |
| 34 | A Two-Week, Randomized, Double-masked Study to Evaluate Safety and Efficacy of Lubricin (150 μ g/mL) Eye Drops Versus Sodium Hyaluronate (HA) 0.18% Eye Drops (Vismeda [®]) in Patients with Moderate Dry Eye Disease. <i>Ocular Surface</i> , 2017, 15, 77-87. | 4.4 | 73 |
| 35 | Friction-Induced Mitochondrial Dysregulation Contributes to Joint Deterioration in Prg4 Knockout Mice. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1252. | 4.1 | 28 |
| 36 | Arthroscopic irrigation of the bovine stifle joint increases cartilage surface friction and decreases superficial zone lubricin. <i>Journal of Biomechanics</i> , 2016, 49, 3106-3110. | 2.1 | 13 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Superficial zone cellularity is deficient in mice lacking lubricin: a stereoscopic analysis. <i>Arthritis Research and Therapy</i> , 2016, 18, 64. | 3.5 | 22 |
| 38 | Effects of lubricant and autologous bone marrow stromal cell augmentation on immobilized flexor tendon repairs. <i>Journal of Orthopaedic Research</i> , 2016, 34, 154-160. | 2.3 | 17 |
| 39 | Full-Length Recombinant Human Proteoglycan 4 Interacts with Hyaluronan to Provide Cartilage Boundary Lubrication. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1128-1137. | 2.5 | 45 |
| 40 | Induced superficial chondrocyte death reduces catabolic cartilage damage in murine posttraumatic osteoarthritis. <i>Journal of Clinical Investigation</i> , 2016, 126, 2893-2902. | 8.2 | 72 |
| 41 | Effects of concentration and structure on proteoglycan 4 rheology and interaction with Hyaluronan. <i>Biorheology</i> , 2015, 51, 409-422. | 0.4 | 14 |
| 42 | The interaction of lubricin/proteoglycan 4 (PRG4) with toll-like receptors 2 and 4: an anti-inflammatory role of PRG4 in synovial fluid. <i>Arthritis Research and Therapy</i> , 2015, 17, 353. | 3.5 | 90 |
| 43 | Lubricin Restoration in a Mouse Model of Congenital Deficiency. <i>Arthritis and Rheumatology</i> , 2015, 67, 3070-3081. | 5.6 | 26 |
| 44 | Anti-Lubricin Monoclonal Antibodies Created Using Lubricin-Knockout Mice Immunodetect Lubricin in Several Species and in Patients with Healthy and Diseased Joints. <i>PLoS ONE</i> , 2015, 10, e0116237. | 2.5 | 36 |
| 45 | Surface Modification with Chemically Modified Synovial Fluid for Flexor Tendon Reconstruction in a Canine Model in Vivo. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 972-978. | 3.0 | 12 |
| 46 | Lubricin/Proteoglycan 4 Binding to CD44 Receptor: A Mechanism of the Suppression of Proinflammatory Cytokine-Induced Synoviocyte Proliferation by Lubricin. <i>Arthritis and Rheumatology</i> , 2015, 67, 1503-1513. | 5.6 | 102 |
| 47 | Lubricin deficiency in the murine lumbar intervertebral disc results in elevated torsional apparent modulus. <i>Journal of Biomechanics</i> , 2015, 48, 2210-2213. | 2.1 | 9 |
| 48 | Combined reflectance spectroscopy and stochastic modeling approach for noninvasive hemoglobin determination via palpebral conjunctiva. <i>Physiological Reports</i> , 2014, 2, e00192. | 1.7 | 20 |
| 49 | Effects of molecular weight of grafted hyaluronic acid on wear initiation. <i>Acta Biomaterialia</i> , 2014, 10, 1817-1823. | 8.3 | 34 |
| 50 | The biology of Lubricin: Near frictionless joint motion. <i>Matrix Biology</i> , 2014, 39, 17-24. | 3.6 | 237 |
| 51 | Interaction of lubricin with type II collagen surfaces: Adsorption, friction, and normal forces. <i>Journal of Biomechanics</i> , 2014, 47, 659-666. | 2.1 | 40 |
| 52 | Synergistic Interactions between Grafted Hyaluronic Acid and Lubricin Provide Enhanced Wear Protection and Lubrication. <i>Biomacromolecules</i> , 2013, 14, 1669-1677. | 5.4 | 133 |
| 53 | Role of lubricin and boundary lubrication in the prevention of chondrocyte apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5852-5857. | 7.1 | 187 |
| 54 | The Effect of Lubricin on the Gliding Resistance of Mouse Intrasynovial Tendon. <i>PLoS ONE</i> , 2013, 8, e83836. | 2.5 | 19 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Preventing Friction-induced Chondrocyte Apoptosis: Comparison of Human Synovial Fluid and Hylan G-F 20. <i>Journal of Rheumatology</i> , 2012, 39, 1473-1480. | 2.0 | 27 |
| 56 | Lubricin as a Novel Protein Coating to Prevent Bacterial Biofouling. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1417, 1. | 0.1 | 0 |
| 57 | Lubricin as a Surface Treatment to Reduce Post-operative Biofouling and Infection. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1486, 16. | 0.1 | 0 |
| 58 | Prevention of cartilage degeneration and gait asymmetry by lubricin tribosupplementation in the rat following anterior cruciate ligament transection. <i>Arthritis and Rheumatism</i> , 2012, 64, 1162-1171. | 6.7 | 77 |
| 59 | Cyclic loading increases friction and changes cartilage surface integrity in lubricin mutant mouse knees. <i>Arthritis and Rheumatism</i> , 2012, 64, 465-473. | 6.7 | 32 |
| 60 | Effects of Supplemental Intra-articular Lubricin and Hyaluronic Acid on the Progression of Posttraumatic Arthritis in the Anterior Cruciate Ligament Deficient Rat Knee. <i>American Journal of Sports Medicine</i> , 2011, 39, 164-172. | 4.2 | 95 |
| 61 | The mechanical properties of tail tendon fascicles from lubricin knockout, wild type and heterozygous mice. <i>Journal of Structural Biology</i> , 2011, 176, 41-45. | 2.8 | 16 |
| 62 | Tendon fascicle gliding in wild type, heterozygous, and lubricin knockout mice. <i>Journal of Orthopaedic Research</i> , 2011, 29, 384-389. | 2.3 | 54 |
| 63 | Preventing bacterial adhesion and cellular encroachment on intraocular lenses with lubricin. , 2011, , . | | 0 |
| 64 | Loss of cartilage structure, stiffness, and frictional properties in mice lacking PRG4. <i>Arthritis and Rheumatism</i> , 2010, 62, 1666-1674. | 6.7 | 125 |
| 65 | Prevention of cartilage degeneration and restoration of chondroprotection by lubricin tribosupplementation in the rat following anterior cruciate ligament transection. <i>Arthritis and Rheumatism</i> , 2010, 62, 2382-2391. | 6.7 | 126 |
| 66 | Effects of a Lubricin-Containing Compound on the Results of Flexor Tendon Repair in a Canine Model in Vivo. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 1453-1461. | 3.0 | 74 |
| 67 | Photonics-based <i>In Vivo</i> total hemoglobin monitoring and clinical relevance. <i>Journal of Biophotonics</i> , 2009, 2, 277-287. | 2.3 | 34 |
| 68 | Lubricin surface modification improves tendon gliding after tendon repair in a canine model in vitro. <i>Journal of Orthopaedic Research</i> , 2009, 27, 257-263. | 2.3 | 37 |
| 69 | Comparison of two methods for calculating the frictional properties of articular cartilage using a simple pendulum and intact mouse knee joints. <i>Journal of Biomechanics</i> , 2009, 42, 1996-1999. | 2.1 | 20 |
| 70 | Friction force microscopy of lubricin and hyaluronic acid between hydrophobic and hydrophilic surfaces. <i>Soft Matter</i> , 2009, 5, 3438. | 2.7 | 108 |
| 71 | Coefficients of friction, lubricin, and cartilage damage in the anterior cruciate ligament deficient guinea pig knee. <i>Journal of Orthopaedic Research</i> , 2008, 26, 231-237. | 2.3 | 99 |
| 72 | Conformational Mechanics, Adsorption, and Normal Force Interactions of Lubricin and Hyaluronic Acid on Model Surfaces. <i>Langmuir</i> , 2008, 24, 1183-1193. | 3.5 | 115 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Molecular Aspects of Boundary Lubrication by Human Lubricin: Effect of Disulfide Bonds and Enzymatic Digestion. <i>Langmuir</i> , 2008, 24, 1495-1508. | 3.5 | 120 |
| 74 | Lubricin Surface Modification Improves Extrasynovial Tendon Gliding in a Canine Model in Vitro. <i>Journal of Bone and Joint Surgery - Series A</i> , 2008, 90, 129-135. | 3.0 | 48 |
| 75 | Point-of-Care Noninvasive Hemoglobin Determination Using Fiber Optic Reflectance Spectroscopy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2932-5. | 0.5 | 3 |
| 76 | Non-Invasive Determination of Hemoglobin by Digital Photography of Palpebral Conjunctiva. <i>Journal of Emergency Medicine</i> , 2007, 33, 105-111. | 0.7 | 62 |
| 77 | Ferroelectric Liquid Crystal Based Tunable Microspectrometer. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 476, 61/[307]-76/[322]. | 0.9 | 3 |
| 78 | Adsorption, Lubrication, and Wear of Lubricin on Model Surfaces: Polymer Brush-Like Behavior of a Glycoprotein. <i>Biophysical Journal</i> , 2007, 92, 1693-1708. | 0.5 | 273 |
| 79 | Reduced expression and proteolytic susceptibility of lubricin/superficial zone protein may explain early elevation in the coefficient of friction in the joints of rats with antigen-induced arthritis. <i>Arthritis and Rheumatism</i> , 2007, 56, 108-116. | 6.7 | 90 |
| 80 | Association between friction and wear in diarthrodial joints lacking lubricin. <i>Arthritis and Rheumatism</i> , 2007, 56, 3662-3669. | 6.7 | 215 |
| 81 | Liquid Crystals: Frontiers in Biomedical Applications. , 2007, , . | | 46 |
| 82 | Diffuse reflectance spectra of the palpebral conjunctiva and its utility as a noninvasive indicator of total hemoglobin. <i>Journal of Biomedical Optics</i> , 2006, 11, 014019. | 2.6 | 30 |
| 83 | Expression and mapping of lubricin in canine flexor tendon. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1861-1868. | 2.3 | 76 |
| 84 | Monolithic microspectrometer using tunable ferroelectric liquid crystals. <i>Applied Physics Letters</i> , 2006, 89, 081105. | 3.3 | 6 |
| 85 | P-28: A Novel Medical Diagnostic Tool for Non-Invasively Measuring Hemoglobin Utilizing Switchable H-PDLC Display Technology. <i>Digest of Technical Papers SID International Symposium</i> , 2005, 36, 364. | 0.3 | 3 |
| 86 | The secreted glycoprotein lubricin protects cartilage surfaces and inhibits synovial cell overgrowth. <i>Journal of Clinical Investigation</i> , 2005, 115, 622-631. | 8.2 | 461 |
| 87 | Lubricating ability of aspirated synovial fluid from emergency department patients with knee joint synovitis. <i>Journal of Rheumatology</i> , 2004, 31, 557-64. | 2.0 | 53 |
| 88 | Lubricin reduces cartilage-cartilage integration. <i>Biorheology</i> , 2004, 41, 503-8. | 0.4 | 49 |
| 89 | Current thinking on viscosupplementation in osteoarthritis. <i>Medicine and Health, Rhode Island</i> , 2004, 87, 213-5. | 0.1 | 0 |
| 90 | CPR effectiveness in microgravity: comparison of three positions and a mechanical device. <i>Aviation, Space, and Environmental Medicine</i> , 2003, 74, 1183-9. | 0.5 | 11 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Homology of lubricin and superficial zone protein (SZP): Products of megakaryocyte stimulating factor (MSF) gene expression by human synovial fibroblasts and articular chondrocytes localized to chromosome 1q25. <i>Journal of Orthopaedic Research</i> , 2001, 19, 677-687. | 2.3 | 214 |
| 92 | Boundary lubrication by lubricin is mediated by O-linked beta(1-3)Gal-GalNAc oligosaccharides. <i>Glycoconjugate Journal</i> , 2001, 18, 807-815. | 2.7 | 209 |
| 93 | Carboxyhemoglobin Toxicokinetics. <i>Academic Emergency Medicine</i> , 1999, 6, 766-768. | 1.8 | 4 |
| 94 | Comparison of the boundary-lubricating ability of bovine synovial fluid, lubricin, and Healon. , 1998, 40, 414-418. | | 122 |
| 95 | First Annual New England Regional SAEM Conferenceâ€”Scientific Presentation Titles. <i>Academic Emergency Medicine</i> , 1997, 4, 1162-1167. | 1.8 | 0 |
| 96 | Evaluation of Preâ€”and Posttreatment Pulse Oximetry in Acute Childhood Asthma. <i>Academic Emergency Medicine</i> , 1997, 4, 114-117. | 1.8 | 28 |
| 97 | Positive Airway Pressure Support and Myocardial Ischemia. <i>Academic Emergency Medicine</i> , 1996, 3, 729-729. | 1.8 | 3 |
| 98 | Continuous Noninvasive Determination of Pulsus Paradoxus: A Pilot Study. <i>Academic Emergency Medicine</i> , 1995, 2, 894-900. | 1.8 | 17 |
| 99 | 070. Optimal Temperatures for Intravenous and Lavage Fluid in Hypothermia. <i>Prehospital and Disaster Medicine</i> , 1995, 10, S39-S40. | 1.3 | 0 |
| 100 | 072. Comparison of Two-Person CPR with Bag-Valve-Mask Device (BVM) to One-Person CPR Using the Kendall Cardioventâ€™ (KCVâ€™) Device in an Intubated CPR Mannequin. <i>Prehospital and Disaster Medicine</i> , 1995, 10, S40-S40. | 1.3 | 0 |
| 101 | 069. Use of Infrared Thermometry to Measure Lavage and Intravenous Fluid Temperature. <i>Prehospital and Disaster Medicine</i> , 1995, 10, S39-S39. | 1.3 | 0 |
| 102 | Characterization of a bovine synovial fluid lubricating factor III. The interaction with hyaluronic acid. <i>Connective Tissue Research</i> , 1992, 28, 245-255. | 2.3 | 77 |
| 103 | Characterization of a bovine synovial fluid lubricating factor. II. Comparison with purified ocular and salivary mucin. <i>Connective Tissue Research</i> , 1992, 28, 89-98. | 2.3 | 25 |
| 104 | Characterization of a bovine synovial fluid lubricating factor. I. Chemical, Surface activity and lubricating properties. <i>Connective Tissue Research</i> , 1992, 28, 71-88. | 2.3 | 186 |
| 105 | Video Library of Objective Verified Simulated Chest Compression Performances (CIRRUS Research) Tj ETQq1 1 0.784314 rgBTj/Overlock | 1.2 | |