

Dieter BrÄmme

List of Publications by Year in descending order

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84
papers

7,777
citations

66343

42
h-index

58581

82
g-index

89
all docs

89
docs citations

89
times ranked

6697
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Lycopene Improves Bone Quality and Regulates AGE/RAGE/NF- κ B Signaling Pathway in High-Fat Diet-Induced Obese Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-14. | 4.0 | 12 |
| 2 | Antibody-induced pain-like behavior and bone erosion: links to subclinical inflammation, osteoclast activity, and acid-sensing ion channel 3 α -dependent sensitization. <i>Pain</i> , 2022, 163, 1542-1559. | 4.2 | 21 |
| 3 | The abnormal accumulation of heparan sulfate in patients with mucopolysaccharidosis prevents the elastolytic activity of cathepsin V. <i>Carbohydrate Polymers</i> , 2021, 253, 117261. | 10.2 | 13 |
| 4 | Green asymmetric synthesis of epoxy-peptidomimetics and evaluation as human cathepsin K inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115597. | 3.0 | 3 |
| 5 | Expression of elastolytic cathepsins in human skin and their involvement in age-dependent elastin degradation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129544. | 2.4 | 21 |
| 6 | Characterization of cathepsin S exosites that govern its elastolytic activity. <i>Biochemical Journal</i> , 2020, 477, 227-242. | 3.7 | 6 |
| 7 | Elastolytic activity of cysteine cathepsins K, S, and V promotes vascular calcification. <i>Scientific Reports</i> , 2019, 9, 9682. | 3.3 | 22 |
| 8 | A Mild Inhibition of Cathepsin K Paradoxically Stimulates the Resorptive Activity of Osteoclasts in Culture. <i>Calcified Tissue International</i> , 2019, 104, 92-101. | 3.1 | 6 |
| 9 | Identification of substrate-specific inhibitors of cathepsin K through high-throughput screening. <i>Biochemical Journal</i> , 2019, 476, 499-512. | 3.7 | 4 |
| 10 | Fructus Ligustri Lucidi preserves bone quality through the regulation of gut microbiota diversity, oxidative stress, TMAO and Sirt6 levels in aging mice. <i>Aging</i> , 2019, 11, 9348-9368. | 3.1 | 72 |
| 11 | Tanshinones that selectively block the collagenase activity of cathepsin K provide a novel class of ectosteric antiresorptive agents for bone. <i>British Journal of Pharmacology</i> , 2018, 175, 902-923. | 5.4 | 20 |
| 12 | Substrate-derived triazolo- and azapeptides as inhibitors of cathepsins K and S. <i>European Journal of Medicinal Chemistry</i> , 2018, 144, 201-210. | 5.5 | 17 |
| 13 | Aging-associated modifications of collagen affect its degradation by matrix metalloproteinases. <i>Matrix Biology</i> , 2018, 65, 30-44. | 3.6 | 109 |
| 14 | Collagen type I degradation fragments act through the collagen receptor LAIR-1 to provide a negative feedback for osteoclast formation. <i>Bone</i> , 2018, 117, 23-30. | 2.9 | 20 |
| 15 | Leupeptazin, a highly modified tripeptide isolated from cultures of a <i>Streptomyces</i> sp. inhibits cathepsin K. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1397-1400. | 2.2 | 2 |
| 16 | Identification of mouse cathepsin K structural elements that regulate the potency of odanacatib. <i>Biochemical Journal</i> , 2017, 474, 851-864. | 3.7 | 24 |
| 17 | An Ectosteric Inhibitor of Cathepsin K Inhibits Bone Resorption in Ovariectomized Mice. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 2415-2430. | 2.8 | 36 |
| 18 | Effect of conditioning solutions containing ferric chloride on dentin bond strength and collagen degradation. <i>Dental Materials</i> , 2017, 33, 1093-1102. | 3.5 | 9 |

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|----|---|-----|-----------|
| 19 | A composite docking approach for the identification and characterization of ectosteric inhibitors of cathepsin K. PLoS ONE, 2017, 12, e0186869. | 2.5 | 8 |
| 20 | The Unusual Resistance of Avian Defensin AvBD7 to Proteolytic Enzymes Preserves Its Antibacterial Activity. PLoS ONE, 2016, 11, e0161573. | 2.5 | 7 |
| 21 | Cathepsin K osteoporosis trials, pycnodysostosis and mouse deficiency models: Commonalities and differences. Expert Opinion on Drug Discovery, 2016, 11, 457-472. | 5.0 | 51 |
| 22 | Affinity Crystallography: A New Approach to Extracting High-Affinity Enzyme Inhibitors from Natural Extracts. Journal of Natural Products, 2016, 79, 1962-1970. | 3.0 | 16 |
| 23 | A novel approach to inhibit bone resorption: exosite inhibitors against cathepsin K. British Journal of Pharmacology, 2016, 173, 396-410. | 5.4 | 46 |
| 24 | Development and characterization of a eukaryotic expression system for human type II procollagen. BMC Biotechnology, 2015, 15, 112. | 3.3 | 21 |
| 25 | Structural requirements for the collagenase and elastase activity of cathepsin K and its selective inhibition by an exosite inhibitor. Biochemical Journal, 2015, 465, 163-173. | 3.7 | 40 |
| 26 | Antimicrobial Peptide LL-37 Is Both a Substrate of Cathepsins S and K and a Selective Inhibitor of Cathepsin L. Biochemistry, 2015, 54, 2785-2798. | 2.5 | 38 |
| 27 | Changes in Structural-Mechanical Properties and Degradability of Collagen during Aging-associated Modifications. Journal of Biological Chemistry, 2015, 290, 23291-23306. | 3.4 | 81 |
| 28 | Structural basis of collagen fiber degradation by cathepsin K. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17474-17479. | 7.1 | 110 |
| 29 | Salvia miltiorrhiza: An ancient Chinese herbal medicine as a source for anti-osteoporotic drugs. Journal of Ethnopharmacology, 2014, 155, 1401-1416. | 4.1 | 150 |
| 30 | Anti-inflammatory and anti-osteoporotic lignans from Vitex negundo seeds. FÄ-toterapÄ-Äç, 2014, 93, 31-38. | 2.2 | 31 |
| 31 | Elastin Degradation by Cathepsin V Requires Two Exosites. Journal of Biological Chemistry, 2013, 288, 34871-34881. | 3.4 | 37 |
| 32 | The Role of Basic Amino Acid Surface Clusters on the Collagenase Activity of Cathepsin K. Biochemistry, 2013, 52, 7742-7752. | 2.5 | 15 |
| 33 | Effects of Cysteine Proteases on the Structural and Mechanical Properties of Collagen Fibers. Journal of Biological Chemistry, 2013, 288, 5940-5950. | 3.4 | 80 |
| 34 | Cathepsin V. , 2013, , 1831-1834. | | 0 |
| 35 | Cleavage of Nidogen-1 by Cathepsin S Impairs Its Binding to Basement Membrane Partners. PLoS ONE, 2012, 7, e43494. | 2.5 | 37 |
| 36 | Cysteine Cathepsins and the Skeleton. Clinical Reviews in Bone and Mineral Metabolism, 2011, 9, 83-93. | 0.8 | 7 |

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|----|--|-----|-----------|
| 37 | Lack of cathepsin activities alter or prevent the development of lung granulomas in a mouse model of sarcoidosis. <i>Respiratory Research</i> , 2011, 12, 13. | 3.6 | 15 |
| 38 | Antifibrotic effects of curcumin are associated with overexpression of cathepsins K and L in bleomycin treated mice and human fibroblasts. <i>Respiratory Research</i> , 2011, 12, 154. | 3.6 | 65 |
| 39 | The effect of cathepsin K deficiency on airway development and TGF- β 1 degradation. <i>Respiratory Research</i> , 2011, 12, 72. | 3.6 | 40 |
| 40 | Acridone alkaloids as potent inhibitors of cathepsin V. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1477-1481. | 3.0 | 31 |
| 41 | Structure-Activity Analysis of Cathepsin K/Chondroitin 4-Sulfate Interactions. <i>Journal of Biological Chemistry</i> , 2011, 286, 8988-8998. | 3.4 | 33 |
| 42 | Role of Cysteine Cathepsins in Extracellular Proteolysis. , 2011, , 23-51. | | 24 |
| 43 | Pharmacological Inhibition of Cathepsin S Decreases Atherosclerotic Lesions in Apoe ^{-/-} Mice. <i>Journal of Cardiovascular Pharmacology</i> , 2010, 56, 98-105. | 1.9 | 54 |
| 44 | Cathepsin K inhibitors for osteoporosis and potential off-target effects. <i>Expert Opinion on Investigational Drugs</i> , 2009, 18, 585-600. | 4.1 | 177 |
| 45 | Monitoring compartment-specific substrate cleavage by cathepsins B, K, L, and S at physiological pH and redox conditions. <i>BMC Biochemistry</i> , 2009, 10, 23. | 4.4 | 134 |
| 46 | Glycosaminoglycan-Mediated Loss of Cathepsin K Collagenolytic Activity in MPS I Contributes to Osteoclast and Growth Plate Abnormalities. <i>American Journal of Pathology</i> , 2009, 175, 2053-2062. | 3.8 | 80 |
| 47 | The Crystal and Molecular Structures of a Cathepsin K:Chondroitin Sulfate Complex. <i>Journal of Molecular Biology</i> , 2008, 383, 78-91. | 4.2 | 95 |
| 48 | Role of cathepsin K in structural changes in brachiocephalic artery during progression of atherosclerosis in apoE-deficient mice. <i>Atherosclerosis</i> , 2008, 200, 58-68. | 0.8 | 57 |
| 49 | Cathepsin V, but not cathepsins L, B and K, may release angiostatin-like fragments from plasminogen. <i>Biological Chemistry</i> , 2008, 389, 195-200. | 2.5 | 16 |
| 50 | Regulation of cathepsin K activity by hydrogen peroxide. <i>Biological Chemistry</i> , 2008, 389, 1123-1126. | 2.5 | 30 |
| 51 | Selective Inhibition of the Collagenase Activity of Cathepsin K. <i>Journal of Biological Chemistry</i> , 2007, 282, 16492-16501. | 3.4 | 23 |
| 52 | The S2 subsites of cathepsins K and L and their contribution to collagen degradation. <i>Protein Science</i> , 2007, 16, 662-670. | 7.6 | 58 |
| 53 | Substrate Profiling of Cysteine Proteases Using a Combinatorial Peptide Library Identifies Functionally Unique Specificities. <i>Journal of Biological Chemistry</i> , 2006, 281, 12824-12832. | 3.4 | 370 |
| 54 | Osteoclastic Bone Degradation and the Role of Different Cysteine Proteinases and Matrix Metalloproteinases: Differences Between Calvaria and Long Bone. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1399-1408. | 2.8 | 156 |

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|----|---|------|-----------|
| 55 | The role of cathepsins in osteoporosis and arthritis: Rationale for the design of new therapeutics. <i>Advanced Drug Delivery Reviews</i> , 2005, 57, 973-993. | 13.7 | 270 |
| 56 | Cathepsin V, a Novel and Potent Elastolytic Activity Expressed in Activated Macrophages. <i>Journal of Biological Chemistry</i> , 2004, 279, 36761-36770. | 3.4 | 165 |
| 57 | The human cysteine protease cathepsin V can compensate for murine cathepsin L in mouse epidermis and hair follicles. <i>European Journal of Cell Biology</i> , 2004, 83, 775-780. | 3.6 | 48 |
| 58 | Pivotal Role of Cathepsin K in Lung Fibrosis. <i>American Journal of Pathology</i> , 2004, 164, 2203-2216. | 3.8 | 167 |
| 59 | Comparative substrate specificity analysis of recombinant human cathepsin V and cathepsin L. <i>Archives of Biochemistry and Biophysics</i> , 2004, 430, 274-283. | 3.0 | 60 |
| 60 | Regulation of Collagenase Activities of Human Cathepsins by Glycosaminoglycans. <i>Journal of Biological Chemistry</i> , 2004, 279, 5470-5479. | 3.4 | 194 |
| 61 | Production and activation of recombinant papain-like cysteine proteases. <i>Methods</i> , 2004, 32, 199-206. | 3.8 | 104 |
| 62 | Cathepsin K: a cysteine protease with unique kinin-degrading properties. <i>Biochemical Journal</i> , 2004, 383, 501-506. | 3.7 | 37 |
| 63 | Cathepsin V is involved in the degradation of invariant chain in human thymus and is overexpressed in myasthenia gravis. <i>Journal of Clinical Investigation</i> , 2003, 112, 517-526. | 8.2 | 105 |
| 64 | Collagenase Activity of Cathepsin K Depends on Complex Formation with Chondroitin Sulfate. <i>Journal of Biological Chemistry</i> , 2002, 277, 28669-28676. | 3.4 | 153 |
| 65 | Human and Parasitic Papain-Like Cysteine Proteases: Their Role in Physiology and Pathology and Recent Developments in Inhibitor Design. <i>Chemical Reviews</i> , 2002, 102, 4459-4488. | 47.7 | 468 |
| 66 | Thiol-Dependent Cathepsins: Pathophysiological Implications and Recent Advances in Inhibitor Design. <i>Current Pharmaceutical Design</i> , 2002, 8, 1639-1658. | 1.9 | 87 |
| 67 | Comparison of cathepsins K and S expression within the rheumatoid and osteoarthritic synovium. <i>Arthritis and Rheumatism</i> , 2002, 46, 663-674. | 6.7 | 168 |
| 68 | Cathepsin K Is a Critical Protease in Synovial Fibroblast-Mediated Collagen Degradation. <i>American Journal of Pathology</i> , 2001, 159, 2167-2177. | 3.8 | 169 |
| 69 | Role for Cathepsin F in Invariant Chain Processing and Major Histocompatibility Complex Class II Peptide Loading by Macrophages. <i>Journal of Experimental Medicine</i> , 2000, 191, 1177-1186. | 8.5 | 216 |
| 70 | Collagenolytic Activity of Cathepsin K Is Specifically Modulated by Cartilage-Resident Chondroitin Sulfates. <i>Biochemistry</i> , 2000, 39, 529-536. | 2.5 | 155 |
| 71 | Papain-like Cysteine Proteases. <i>Current Protocols in Protein Science</i> , 2000, 21, Unit 21.2. | 2.8 | 26 |
| 72 | Human Cathepsin V Functional Expression, Tissue Distribution, Electrostatic Surface Potential, Enzymatic Characterization, and Chromosomal Localization. <i>Biochemistry</i> , 1999, 38, 2377-2385. | 2.5 | 213 |

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|----|--|------|-----------|
| 73 | Characterization of novel cathepsin K mutations in the pro and mature polypeptide regions causing pycnodysostosis. <i>Journal of Clinical Investigation</i> , 1999, 103, 731-738. | 8.2 | 132 |
| 74 | Human cathepsin K cleaves native type I and II collagens at the N-terminal end of the triple helix. <i>Biochemical Journal</i> , 1998, 331, 727-732. | 3.7 | 318 |
| 75 | Crystal structure of human cathepsin K complexed with a potent inhibitor. <i>Nature Structural Biology</i> , 1997, 4, 105-109. | 9.7 | 142 |
| 76 | Expression of human cathepsin K in <i>Pichia pastoris</i> and preliminary crystallographic studies of an inhibitor complex. <i>Protein Science</i> , 1997, 6, 919-921. | 7.6 | 99 |
| 77 | Human Cathepsin O2, a Matrix Protein-degrading Cysteine Protease Expressed in Osteoclasts. <i>Journal of Biological Chemistry</i> , 1996, 271, 2126-2132. | 3.4 | 387 |
| 78 | Essential Role for Cathepsin S in MHC Class II α -Associated Invariant Chain Processing and Peptide Loading. <i>Immunity</i> , 1996, 4, 357-366. | 14.3 | 502 |
| 79 | Human Cathepsin O2, a Novel Cysteine Protease Highly Expressed in Osteoclastomas and Ovary Molecular Cloning, Sequencing and Tissue Distribution. <i>Biological Chemistry Hoppe-Seyler</i> , 1995, 376, 379-384. | 1.4 | 215 |
| 80 | Vinyl Sulfones as Mechanism-Based Cysteine Protease Inhibitors. <i>Journal of Medicinal Chemistry</i> , 1995, 38, 3193-3196. | 6.4 | 487 |
| 81 | N -Peptidyl-O -carbamoyl amino acid hydroxamates: Irreversible inhibitors for the study of the S2 α ² specificity of cysteine proteinases. <i>FEBS Letters</i> , 1993, 322, 211-214. | 2.8 | 16 |
| 82 | Peptide Methyl Ketones as Reversible Inhibitors of Cysteine Proteinases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1989, 3, 13-21. | 0.5 | 17 |
| 83 | Action of rat liver cathepsin B on bradykinin and on the oxidized insulin A-chain. <i>FEBS Letters</i> , 1987, 219, 441-444. | 2.8 | 1 |
| 84 | New Synthetic Quinolines as Cathepsin K Inhibitors. <i>Journal of the Brazilian Chemical Society</i> , 0, , . | 0.6 | 1 |