

Aki Hirayama

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,470
citations

218662

26
h-index

206102

48
g-index

75
all docs

75
docs citations

75
times ranked

3320
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Nrf2-deficient female mice develop lupus-like autoimmune nephritis. See Editorial by Byrd and Thomas, p. 1606.. <i>Kidney International</i> , 2001, 60, 1343-1353. | 5.2 | 313 |
| 2 | Hyperglycemia induces oxidative and nitrosative stress and increases renal functional impairment in Nrf2-deficient mice. <i>Genes To Cells</i> , 2008, 13, 1159-1170. | 1.2 | 175 |
| 3 | A Novel Nonenzymatic Pathway for the Generation of Nitric Oxide by the Reaction of Hydrogen Peroxide and D- or L-Arginine. <i>Biochemical and Biophysical Research Communications</i> , 1997, 233, 150-153. | 2.1 | 164 |
| 4 | The ROS scavenging and renal protective effects of pH-responsive nitroxide radical-containing nanoparticles. <i>Biomaterials</i> , 2011, 32, 8021-8028. | 11.4 | 136 |
| 5 | Nrf2 regulates the sensitivity of death receptor signals by affecting intracellular glutathione levels. <i>Oncogene</i> , 2003, 22, 9275-9281. | 5.9 | 105 |
| 6 | Redox regulation in radiation-induced cytochrome c release from mitochondria of human lung carcinoma A549 cells. <i>Cancer Letters</i> , 2009, 277, 64-71. | 7.2 | 91 |
| 7 | pH-Sensitive Radical-Containing-Nanoparticle (RNP) for the L-Band-EPR Imaging of Low pH Circumstances. <i>Bioconjugate Chemistry</i> , 2009, 20, 1792-1798. | 3.6 | 83 |
| 8 | EPR imaging of reducing activity in Nrf2 transcriptional factor-deficient mice. <i>Free Radical Biology and Medicine</i> , 2003, 34, 1236-1242. | 2.9 | 81 |
| 9 | PPAR α Activator Pioglitazone Prevents Age-Related Atrial Fibrillation Susceptibility by Improving Antioxidant Capacity and Reducing Apoptosis in a Rat Model. <i>Journal of Cardiovascular Electrophysiology</i> , 2012, 23, 209-217. | 1.7 | 69 |
| 10 | Newly Synthesized Radical-Containing Nanoparticles Enhance Neuroprotection After Cerebral Ischemia-Reperfusion Injury. <i>Neurosurgery</i> , 2011, 68, 1418-1426. | 1.1 | 68 |
| 11 | Neurovascular Unit Protection From Cerebral Ischemia-Reperfusion Injury by Radical-Containing Nanoparticles in Mice. <i>Stroke</i> , 2017, 48, 2238-2247. | 2.0 | 61 |
| 12 | Therapeutic efficacy of the Qing Dai in patients with intractable ulcerative colitis. <i>World Journal of Gastroenterology</i> , 2013, 19, 2718. | 3.3 | 60 |
| 13 | In vivo imaging of oxidative stress in ischemia-reperfusion renal injury using electron paramagnetic resonance. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, F597-F603. | 2.7 | 50 |
| 14 | Association of ecNOS gene polymorphisms with end stage renal diseases. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 113-118. | 3.1 | 48 |
| 15 | Redox-active injectable gel using thermo-responsive nanoscale polyion complex flower micelle for noninvasive treatment of local inflammation. <i>Journal of Controlled Release</i> , 2013, 172, 914-920. | 9.9 | 45 |
| 16 | Favorable effect of hemodialysis on decreased serum antioxidant activity in hemodialysis patients demonstrated by electron spin resonance.. <i>Journal of the American Society of Nephrology: JASN</i> , 1997, 8, 1157-1163. | 6.1 | 41 |
| 17 | Treatment with the purine synthesis inhibitor mizoribine for ANCA-associated renal vasculitis. <i>American Journal of Kidney Diseases</i> , 2004, 44, 57-63. | 1.9 | 37 |
| 18 | S-Nitrosothiols Are Stored by Platelets and Released during Platelet-Neutrophil Interactions. <i>Nitric Oxide - Biology and Chemistry</i> , 1999, 3, 95-104. | 2.7 | 36 |

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|----|---|-----|-----------|
| 19 | Formation of guanidinosuccinic acid, a stable nitric oxide mimic, from argininosuccinic acid and nitric oxide-derived free radicals. <i>Free Radical Research</i> , 1999, 31, 59-65. | 3.3 | 35 |
| 20 | Thiobarbituric acid reactive substances are increased in the subcutaneous fat tissue of patients with end-stage renal disease. <i>Nephrology Dialysis Transplantation</i> , 1997, 12, 713-717. | 0.7 | 34 |
| 21 | Spherical Carbon Adsorbent (AST-120) Protects Deterioration of Renal Function in Chronic Kidney Disease Rats through Inhibition of Reactive Oxygen Species Production from Mitochondria and Reduction of Serum Lipid Peroxidation. <i>Nephron Experimental Nephrology</i> , 2010, 115, e101-e111. | 2.2 | 32 |
| 22 | Bisphosphonate-induced gastrointestinal mucosal injury is mediated by mitochondrial superoxide production and lipid peroxidation. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2012, 51, 196-203. | 1.4 | 31 |
| 23 | Hepatocyte-Specific Deletion of Heme Oxygenase-1 Disrupts Redox Homeostasis in Basal and Oxidative Environments. <i>Tohoku Journal of Experimental Medicine</i> , 2008, 216, 331-339. | 1.2 | 30 |
| 24 | Nrf2 deficiency improves autoimmune nephritis caused by the fas mutation <i>lpr</i> . <i>Kidney International</i> , 2004, 65, 1703-1713. | 5.2 | 28 |
| 25 | A case of superantigen-related glomerulonephritis after methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) infection. <i>Clinical Nephrology</i> , 1997, 48, 311-6. | 0.7 | 28 |
| 26 | Importance of renal mitochondria in the reduction of TEMPOL, a nitroxide radical. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 119-124. | 3.1 | 26 |
| 27 | Nutcracker syndrome associated with severe anemia and mild proteinuria. <i>Clinical Nephrology</i> , 2004, 62, 62-65. | 0.7 | 26 |
| 28 | Hemodialysis Does Not Influence the Peroxidative State Already Present in Uremia. <i>Nephron</i> , 2000, 86, 436-440. | 1.8 | 25 |
| 29 | Heterogeneity of Prognosis in Adult IgA Nephropathy, Especially with Mild Proteinuria or Mild Histological Features. <i>Internal Medicine</i> , 2001, 40, 697-702. | 0.7 | 24 |
| 30 | Tissue Prx I in the protection against Fe-NTA and the reduction of nitroxyl radicals. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 226-231. | 2.1 | 24 |
| 31 | Antioxidant capacity in rat skeletal muscle tissues determined by electron spin resonance. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003, 134, 215-220. | 1.6 | 23 |
| 32 | Gastric acid induces mitochondrial superoxide production and lipid peroxidation in gastric epithelial cells. <i>Journal of Gastroenterology</i> , 2011, 46, 1167-1176. | 5.1 | 23 |
| 33 | The antioxidant EPC-K1 ameliorates brain injury by inhibiting lipid peroxidation in a rat model of transient focal cerebral ischaemia. <i>Acta Neurochirurgica</i> , 2003, 145, 489-493. | 1.7 | 22 |
| 34 | In vivo temporal EPR imaging for estimating the kinetics of a nitroxide radical in the renal parenchyma and pelvis in rats. <i>Magnetic Resonance Imaging</i> , 2002, 20, 77-82. | 1.8 | 21 |
| 35 | Dose-dependent decrease in anti-oxidant capacity of whole blood after irradiation: A novel potential marker for biodosimetry. <i>Scientific Reports</i> , 2018, 8, 7425. | 3.3 | 21 |
| 36 | Reduced Serum Hydroxyl Radical Scavenging Activity in Erythropoietin Therapy Resistant Renal Anemia. <i>Free Radical Research</i> , 2002, 36, 1155-1161. | 3.3 | 20 |

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|----|---|-----|-----------|
| 37 | Lansoprazole inhibits mitochondrial superoxide production and cellular lipid peroxidation induced by indomethacin in RGM1 cells. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2011, 49, 25-30. | 1.4 | 20 |
| 38 | Effect of Keishibukuryogan, a Japanese Traditional Kampo Prescription, on Improvement of Microcirculation and Oketsu and Induction of Endothelial Nitric Oxide: A Live Imaging Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2017, 2017, 1-7. | 1.2 | 19 |
| 39 | Evaluation of adriamycin nephropathy by an in vivo electron paramagnetic resonance. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 326-331. | 2.1 | 18 |
| 40 | Electron Paramagnetic Resonance Imaging of Oxidative Stress in Renal Disease. <i>Nephron Clinical Practice</i> , 2006, 103, c71-c76. | 2.3 | 17 |
| 41 | Reactive oxygen species induced by non-steroidal anti-inflammatory drugs enhance the effects of photodynamic therapy in gastric cancer cells. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2016, 58, 180-185. | 1.4 | 17 |
| 42 | Metabolic analysis of radioresistant medulloblastoma stem-like clones and potential therapeutic targets. <i>PLoS ONE</i> , 2017, 12, e0176162. | 2.5 | 17 |
| 43 | Identification by an EPR technique of decreased mitochondrial reducing activity in puromycin aminonucleoside-induced nephrosis. <i>Free Radical Biology and Medicine</i> , 2002, 33, 1082-1088. | 2.9 | 16 |
| 44 | Glomerular crescents predominantly express cadherinâ€‘catenin complex in pauciâ€‘immuneâ€‘type crescentic glomerulonephritis. <i>Histopathology</i> , 2003, 43, 173-179. | 2.9 | 15 |
| 45 | Effect of spontaneous exercise on antioxidant capacity in rat muscles determined by electron spin resonance. <i>Acta Physiologica</i> , 2006, 186, 119-125. | 3.8 | 14 |
| 46 | Clinical significance of redox effects of Kampo formulae, a traditional Japanese herbal medicine: comprehensive estimation of multiple antioxidative activities. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2018, 62, 39-48. | 1.4 | 14 |
| 47 | Design and use of silica-containing redox nanoparticles, siRNPs, for high-performance peritoneal dialysis. <i>Biomaterials Science</i> , 2014, 2, 522. | 5.4 | 13 |
| 48 | Oxidative stress during leukocyte absorption apheresis. <i>Journal of Clinical Apheresis</i> , 2003, 18, 61-66. | 1.3 | 12 |
| 49 | In Vivo Imaging of Renal Redox Status during Azelnidipine Treatment. <i>Hypertension Research</i> , 2008, 31, 1643-1650. | 2.7 | 12 |
| 50 | Novel neuroprotection using antioxidant nanoparticles in a mouse model of head trauma. <i>Journal of Trauma and Acute Care Surgery</i> , 2020, 88, 677-685. | 2.1 | 12 |
| 51 | Effect of CV159â€‘Ca ²⁺ /Calmodulin Blockade on Redox Status Hepatic Ischemiaâ€‘Reperfusion Injury in Mice Evaluated by a Newly Developed In Vivo EPR Imaging Technique. <i>Journal of Surgical Research</i> , 2008, 147, 41-49. | 1.6 | 11 |
| 52 | Rebamipide attenuates nonsteroidal anti-inflammatory drugs (NSAID) induced lipid peroxidation by the manganese superoxide dismutase (MnSOD) overexpression in gastrointestinal epithelial cells. <i>Journal of Physiology and Pharmacology</i> , 2012, 63, 137-42. | 1.1 | 10 |
| 53 | Normalizing renal reducing ability prevents adriamycin-induced proteinuria. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 48-51. | 2.1 | 9 |
| 54 | Kangen-karyu raises surface body temperature through oxidative stress modification. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2016, 58, 167-173. | 1.4 | 9 |

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|----|---|-----|-----------|
| 55 | Light-Shielded Hemodialysis Prevents Hypotension and Lipid Peroxidation by Inhibiting Nitric Oxide Production. <i>Clinical Chemistry</i> , 2005, 51, 2397-2398. | 3.2 | 8 |
| 56 | In vivodetection of intrinsic reactive oxygen species using acyl-protected hydroxylamine in puromycin nephrosis. <i>Free Radical Research</i> , 2007, 41, 823-828. | 3.3 | 8 |
| 57 | Proanthocyanidin promotes free radical-scavenging activity in muscle tissues and plasma. <i>Applied Physiology, Nutrition and Metabolism</i> , 2007, 32, 1097-1104. | 1.9 | 8 |
| 58 | Biosynthesis of Methylguanidine in the Hepatic Peroxisomes and the Effect of the Induction of Peroxisomal Enzymes by Clofibrate. <i>Nephron</i> , 1998, 78, 82-87. | 1.8 | 6 |
| 59 | L-Arginine Administration Reverses Anemia Associated with Renal Disease. <i>International Journal of Hematology</i> , 2007, 86, 126-129. | 1.6 | 6 |
| 60 | Uremic concentrations of guanidino compounds inhibit neutrophil superoxide production. <i>Kidney International</i> , 2001, 59, S89-S92. | 5.2 | 5 |
| 61 | Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 63-67. | 3.1 | 5 |
| 62 | Erythropoietin-resistant anaemia in a predialysis patient with Klinefelter syndrome. Case Report. <i>Nephrology</i> , 2005, 10, 147-150. | 1.6 | 5 |
| 63 | Nitric oxide protection against adriamycin-induced tubulointerstitial injury. <i>Free Radical Research</i> , 2008, 42, 154-161. | 3.3 | 5 |
| 64 | Analysis of T-cell receptor usage in myeloperoxidase-antineutrophil cytoplasmic antibody-associated renal vasculitis. <i>Clinical and Experimental Nephrology</i> , 2010, 14, 36-42. | 1.6 | 5 |
| 65 | Cancer cell-specific mitochondrial reactive oxygen species promote non-heme iron uptake and enhance the proliferation of gastric epithelial cancer cell. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2017, 61, 183-188. | 1.4 | 5 |
| 66 | Increased Lipid Peroxidation by Rat Liver Microsomes in Experimental Renal Failure. <i>Nephron</i> , 1996, 74, 204-208. | 0.6 | 4 |
| 67 | Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 3-9. | 3.1 | 4 |
| 68 | Elimination of Lipid Peroxide during Hemodialysis. <i>Nephron Clinical Practice</i> , 2007, 106, c162-c168. | 2.3 | 2 |
| 69 | Effect of different dialyzers on defensins during hemodialysis. <i>Clinical and Experimental Nephrology</i> , 2001, 5, 163-167. | 1.6 | 1 |
| 70 | Over Antioxidation, in Addition to Oxidative Stress, Contributes to the Pathogenesis of Autism Spectrum Disorders in Children. <i>Free Radical Biology and Medicine</i> , 2017, 112, 132. | 2.9 | 1 |
| 71 | Live-Imaging Analysis of Target Vessels and Nitric Oxide Production Associated with Gosha-Jinki-Gan and Keishi-Bukuryo-Gan: Two Herbal Preparations with Clinically Proven Blood Flow-Improving Effects but with Different Traditional Clinical Indicative Patterns. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-10. | 1.2 | 1 |
| 72 | NO Is Not Exclusively Generated by the Reaction of L-Arginine and NOS and Is Poorly Identified by the Griess Reaction or Clark-Type Electrodes. <i>Nephron</i> , 1997, 77, 489-489. | 0.6 | 0 |

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|----|---|-----|-----------|
| 73 | Does fluvastatin really have an antioxidant effect in humans?. <i>Kidney International</i> , 2005, 68, 1373-1374. | 5.2 | 0 |