

Hsin-Hou Chang

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,292
citations

201385

27
h-index

243296

44
g-index

82
all docs

82
docs citations

82
times ranked

2580
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Visible-Light-Induced Bactericidal Activity of a Nitrogen-Doped Titanium Photocatalyst against Human Pathogens. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6111-6116. | 1.4 | 193 |
| 2 | Bactericidal Effects and Mechanisms of Visible Light-Responsive Titanium Dioxide Photocatalysts on Pathogenic Bacteria. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2012, 60, 267-275. | 1.0 | 160 |
| 3 | Antiplatelet autoantibodies elicited by dengue virus non-structural protein 1 cause thrombocytopenia and mortality in mice. <i>Journal of Thrombosis and Haemostasis</i> , 2007, 5, 2291-2299. | 1.9 | 118 |
| 4 | The effects of the bacterial interaction with visible-light responsive titania photocatalyst on the bactericidal performance. <i>Journal of Biomedical Science</i> , 2009, 16, 7. | 2.6 | 103 |
| 5 | A comparative study of the bactericidal effect of photocatalytic oxidation by TiO ₂ on antibiotic-resistant and antibiotic-sensitive bacteria. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1642-1653. | 1.6 | 90 |
| 6 | Facilitation of Cell Adhesion by Immobilized Dengue Viral Nonstructural Protein 1 (NS1): Arginine-Glycine-Aspartic Acid Structural Mimicry within the Dengue Viral NS1 Antigen. <i>Journal of Infectious Diseases</i> , 2002, 186, 743-751. | 1.9 | 60 |
| 7 | Bactericidal Performance of Visible-Light Responsive Titania Photocatalyst with Silver Nanostructures. <i>PLoS ONE</i> , 2010, 5, e10394. | 1.1 | 57 |
| 8 | SARS Unique Domain (SUD) of Severe Acute Respiratory Syndrome Coronavirus Induces NLRP3 Inflammasome-Dependent CXCL10-Mediated Pulmonary Inflammation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3179. | 1.8 | 54 |
| 9 | Dendritic cells modulate platelet activity in IVIg-mediated amelioration of ITP in mice. <i>Blood</i> , 2010, 116, 5002-5009. | 0.6 | 53 |
| 10 | Antibacterial property of Ag nanoparticle-impregnated N-doped titania films under visible light. <i>Scientific Reports</i> , 2015, 5, 11978. | 1.6 | 52 |
| 11 | Antiplatelet Activities of Anthrax Lethal Toxin Are Associated with Suppressed p42/44 and p38 Mitogen-Activated Protein Kinase Pathways in the Platelets. <i>Journal of Infectious Diseases</i> , 2005, 192, 1465-1474. | 1.9 | 49 |
| 12 | Nanodiamonds protect skin from ultraviolet B-induced damage in mice. <i>Journal of Nanobiotechnology</i> , 2015, 13, 35. | 4.2 | 47 |
| 13 | The influence of nanodiamond on the oxygenation states and micro rheological properties of human red blood cells <i>&lt;italic>in vitro</i> . <i>Journal of Biomedical Optics</i> , 2012, 17, 101512. | 1.4 | 45 |
| 14 | Role of Visible Light-Activated Photocatalyst on the Reduction of Anthrax Spore-Induced Mortality in Mice. <i>PLoS ONE</i> , 2009, 4, e4167. | 1.1 | 43 |
| 15 | Rhodostomin, an RGD-Containing Peptide Expressed from a Synthetic Gene in <i>Escherichia coli</i> , Facilitates the Attachment of Human Hepatoma Cells. <i>Biochemical and Biophysical Research Communications</i> , 1993, 190, 242-249. | 1.0 | 40 |
| 16 | The integrin $\alpha 6 \beta 1$ modulation of PI3K and Cdc42 activities induces dynamic filopodium formation in human platelets. <i>Journal of Biomedical Science</i> , 2005, 12, 881-898. | 2.6 | 38 |
| 17 | Platelets in Inflammation and Immune Modulations: Functions Beyond Hemostasis. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2012, 60, 443-451. | 1.0 | 38 |
| 18 | Recombinant Rhodostomin Substrates Induce Transformation and Active Calcium Oscillation in Human Platelets. <i>Experimental Cell Research</i> , 1999, 250, 387-400. | 1.2 | 35 |

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|----|--|-----|-----------|
| 19 | Dengue virus and antiplatelet autoantibodies synergistically induce haemorrhage through Nlrp3-inflammasome and FcγRIII. <i>Thrombosis and Haemostasis</i> , 2015, 113, 1060-1070. | 1.8 | 35 |
| 20 | DNA vaccination using the fragment C of botulinum neurotoxin type A provided protective immunity in mice. <i>Journal of Biomedical Science</i> , 2000, 7, 51-57. | 2.6 | 32 |
| 21 | Endothelial Cell Sensitization by Death Receptor Fractions of an Anti-Dengue Nonstructural Protein 1 Antibody Induced Plasma Leakage, Coagulopathy, and Mortality in Mice. <i>Journal of Immunology</i> , 2015, 195, 2743-2753. | 0.4 | 32 |
| 22 | Visible light-responsive core-shell structured In ₂ O ₃ @CaIn ₂ O ₄ photocatalyst with superior bactericidal properties and biocompatibility. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 609-617. | 1.7 | 31 |
| 23 | Application of recombinant rhodostomin in studying cell adhesion. <i>Journal of Biomedical Science</i> , 1997, 4, 235-243. | 2.6 | 30 |
| 24 | Visible Light Responsive Photocatalyst Induces Progressive and Apical-Terminus Preferential Damages on Escherichia coli Surfaces. <i>PLoS ONE</i> , 2011, 6, e19982. | 1.1 | 30 |
| 25 | PKC δ mediates mitochondrial ROS generation and oxidation of HSP60 to relieve RKIP inhibition on MAPK pathway for HCC progression. <i>Free Radical Biology and Medicine</i> , 2021, 163, 69-87. | 1.3 | 29 |
| 26 | Full-spreading platelets induced by the recombinant rhodostomin are via binding to integrins and correlated with FAK phosphorylation. <i>Toxicon</i> , 1998, 36, 1087-1099. | 0.8 | 28 |
| 27 | Glutathione S-transferase-rhodostomin fusion protein inhibits platelet aggregation and induces platelet shape change. <i>Toxicon</i> , 1997, 35, 195-204. | 0.8 | 27 |
| 28 | Positional importance of Pro53 adjacent to the Arg49-Gly50-Asp51 sequence of rhodostomin in binding to integrin α IIb β 3. <i>Biochemical Journal</i> , 2001, 357, 57-64. | 1.7 | 26 |
| 29 | Silver Nanoparticles Protect Skin from Ultraviolet B-Induced Damage in Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7082. | 1.8 | 26 |
| 30 | Suppressive effect of dengue virus envelope protein domain III on megakaryopoiesis. <i>Virulence</i> , 2017, 8, 1719-1731. | 1.8 | 24 |
| 31 | Exposure to Dengue Envelope Protein Domain III Induces Nlrp3 Inflammasome-Dependent Endothelial Dysfunction and Hemorrhage in Mice. <i>Frontiers in Immunology</i> , 2021, 12, 617251. | 2.2 | 24 |
| 32 | The Use of Nanoscale Visible Light-Responsive Photocatalyst TiO ₂ -Pt for the Elimination of Soil-Borne Pathogens. <i>PLoS ONE</i> , 2012, 7, e31212. | 1.1 | 24 |
| 33 | Expression of foreign antigens on the surface of Escherichia coli by fusion to the outer membrane protein TraT. <i>Journal of Biomedical Science</i> , 1999, 6, 64-70. | 2.6 | 23 |
| 34 | Thioacetamide-induced liver damage and thrombocytopenia is associated with induction of antiplatelet autoantibody in mice. <i>Scientific Reports</i> , 2019, 9, 17497. | 1.6 | 23 |
| 35 | Erythropoiesis Suppression Is Associated with Anthrax Lethal Toxin-Mediated Pathogenic Progression. <i>PLoS ONE</i> , 2013, 8, e71718. | 1.1 | 21 |
| 36 | Antibacterial Properties of Visible-Light-Responsive Carbon-Containing Titanium Dioxide Photocatalytic Nanoparticles against Anthrax. <i>Nanomaterials</i> , 2016, 6, 237. | 1.9 | 21 |

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|----|--|-----|-----------|
| 37 | Exposure of Platelets to Dengue Virus and Envelope Protein Domain III Induces Nlrp3 Inflammasome-Dependent Platelet Cell Death and Thrombocytopenia in Mice. <i>Frontiers in Immunology</i> , 2021, 12, 616394. | 2.2 | 21 |
| 38 | Suppressive Effects of Anthrax Lethal Toxin on Megakaryopoiesis. <i>PLoS ONE</i> , 2013, 8, e59512. | 1.1 | 21 |
| 39 | Positional importance of Pro53 adjacent to the Arg49-Gly50-Asp51 sequence of rhodostomin in binding to integrin α IIb β 3. <i>Biochemical Journal</i> , 2001, 357, 57. | 1.7 | 20 |
| 40 | Antibacterial performance of nanoscaled visible-light responsive platinum-containing titania photocatalyst in vitro and in vivo. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3787-3795. | 1.1 | 20 |
| 41 | Sublethal Doses of Anthrax Lethal Toxin on the Suppression of Macrophage Phagocytosis. <i>PLoS ONE</i> , 2010, 5, e14289. | 1.1 | 20 |
| 42 | Calcium oscillation and phosphatidylinositol 3-kinase positively regulate integrin α IIb β 3-mediated outside-in signaling. <i>Journal of Biomedical Science</i> , 2005, 12, 321-333. | 2.6 | 19 |
| 43 | Soluble P-selectin rescues viper venom-induced mortality through anti-inflammatory properties and PSGL-1 pathway-mediated correction of hemostasis. <i>Scientific Reports</i> , 2016, 6, 35868. | 1.6 | 19 |
| 44 | Immune imbalance of global gene expression, and cytokine, chemokine and selectin levels in the brains of offspring with social deficits via maternal immune activation. <i>Genes, Brain and Behavior</i> , 2018, 17, e12479. | 1.1 | 19 |
| 45 | Raman spectroscopy on live mouse early embryo while it continues to develop into blastocyst in vitro. <i>Scientific Reports</i> , 2019, 9, 6636. | 1.6 | 18 |
| 46 | PI3-kinase is essential for ADP-stimulated integrin α IIb β 3-mediated platelet calcium oscillation, implications for P2Y receptor pathways in integrin α IIb β 3-initiated signaling cross-talks. <i>Journal of Biomedical Science</i> , 2005, 12, 937-948. | 2.6 | 17 |
| 47 | Characterization of Early Gamma Interferon (IFN- γ) Expression during Murine Listeriosis: Identification of NK1.1 + CD11c + Cells as the Primary IFN- γ -Expressing Cells. <i>Infection and Immunity</i> , 2007, 75, 1167-1176. | 1.0 | 17 |
| 48 | Modification with a phosphorylation tag of PKA in the TraT-based display vector of Escherichia coli. <i>Journal of Biotechnology</i> , 2000, 78, 115-122. | 1.9 | 16 |
| 49 | Differential regulation of JNK in caspase-3-mediated apoptosis of MPP+-treated primary cortical neurons. <i>Cell Biology International</i> , 2003, 27, 769-777. | 1.4 | 16 |
| 50 | Soluble P-selectin rescues mice from anthrax lethal toxin-induced mortality through PSGL-1 pathway-mediated correction of hemostasis. <i>Virulence</i> , 2017, 8, 1216-1228. | 1.8 | 16 |
| 51 | Dengue Virus Envelope Protein Domain III Induces Nlrp3 Inflammasome-Dependent NETosis-Mediated Inflammation in Mice. <i>Frontiers in Immunology</i> , 2021, 12, 618577. | 2.2 | 16 |
| 52 | Activated protein C ameliorates Bacillus anthracis lethal toxin-induced lethal pathogenesis in rats. <i>Journal of Biomedical Science</i> , 2012, 19, 98. | 2.6 | 15 |
| 53 | TRPM8 and RAAS-mediated hypertension is critical for cold-induced immunosuppression in mice. <i>Oncotarget</i> , 2018, 9, 12781-12795. | 0.8 | 15 |
| 54 | Visible Light-Responsive Platinum-Containing Titania Nanoparticle-Mediated Photocatalysis Induces Nucleotide Insertion, Deletion and Substitution Mutations. <i>Nanomaterials</i> , 2017, 7, 2. | 1.9 | 14 |

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|----|---|-----|-----------|
| 55 | Suppressed humoral immunity is associated with dengue nonstructural protein NS1-elicited anti-death receptor antibody fractions in mice. <i>Scientific Reports</i> , 2020, 10, 6294. | 1.6 | 14 |
| 56 | Acquired coagulant factor VIII deficiency induced by <i>Bacillus anthracis</i> lethal toxin in mice. <i>Virulence</i> , 2015, 6, 466-475. | 1.8 | 13 |
| 57 | Altered susceptibility to the bactericidal effect of photocatalytic oxidation by TiO ₂ is related to colistin resistance development in <i>Acinetobacter baumannii</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8549-8561. | 1.7 | 13 |
| 58 | Receptor-mediated endocytosis as a selection force to enrich bacteria expressing rhodostomin on their surface. <i>Journal of Biomedical Science</i> , 2000, 7, 42-50. | 2.6 | 12 |
| 59 | Cell-adhesion and morphological changes are not sufficient to support anchorage-dependent cell growth via non-integrin-mediated attachment. <i>Cell Biology International</i> , 2003, 27, 123-133. | 1.4 | 12 |
| 60 | Single-step purification of recombinant anthrax lethal factor from periplasm of <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2006, 126, 277-285. | 1.9 | 11 |
| 61 | Alteration of the Phenotypic and Pathogenic Patterns of <i>Burkholderia pseudomallei</i> that Persist in a Soil Environment. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 90, 469-479. | 0.6 | 11 |
| 62 | Cell adhesion as a novel approach to determining the cellular binding motif on the severe acute respiratory syndrome coronavirus spike protein. <i>Journal of Virological Methods</i> , 2014, 201, 1-6. | 1.0 | 11 |
| 63 | Involvement of L-selectin expression in <i>Burkholderia pseudomallei</i> -infected monocytes invading the brain during murine melioidosis. <i>Virulence</i> , 2017, 8, 751-766. | 1.8 | 11 |
| 64 | Activating Transcription Factor 3 Protects against Restraint Stress-Induced Gastrointestinal Injury in Mice. <i>Cells</i> , 2021, 10, 3530. | 1.8 | 11 |
| 65 | Differential regulation of caspase-2 in MPP ⁺ -induced apoptosis in primary cortical neurons. <i>Experimental Cell Research</i> , 2015, 332, 60-66. | 1.2 | 10 |
| 66 | Erythrocytic Mobilization Enhanced by the Granulocyte Colony-Stimulating Factor Is Associated with Reduced Anthrax-Lethal-Toxin-Induced Mortality in Mice. <i>PLoS ONE</i> , 2014, 9, e111149. | 1.1 | 10 |
| 67 | Opportunistic gill infection is associated with TiO ₂ nanoparticle-induced mortality in zebrafish. <i>PLoS ONE</i> , 2021, 16, e0247859. | 1.1 | 9 |
| 68 | Different effects of granulocyte colony-stimulating factor and erythropoietin on erythropoiesis. <i>Stem Cell Research and Therapy</i> , 2018, 9, 119. | 2.4 | 8 |
| 69 | Identification of Two Novel Small Compounds that Inhibit Liver Cancer Formation in Zebrafish and Analysis of Their Conjugation to Nanodiamonds to Further Reduce Toxicity. <i>Advanced Therapeutics</i> , 2019, 2, 1900105. | 1.6 | 8 |
| 70 | Visible-Light-Responsive Antibacterial Property of Boron-Doped Titania Films. <i>Catalysts</i> , 2020, 10, 1349. | 1.6 | 8 |
| 71 | Nanodiamond-Induced Thrombocytopenia in Mice Involve P-Selectin-Dependent Nlrp3 Inflammasome-Mediated Platelet Aggregation, Pyroptosis and Apoptosis. <i>Frontiers in Immunology</i> , 2022, 13, 806686. | 2.2 | 8 |
| 72 | Expression of Foreign Antigens on the Surface of <i>Escherichia coli</i> by Fusion to the Outer Membrane Protein TraT. <i>Journal of Biomedical Science</i> , 1999, 6, 64-70. | 2.6 | 5 |

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|----|--|-----|-----------|
| 73 | AQP0 is a novel surface marker for deciphering abnormal erythropoiesis. <i>Stem Cell Research and Therapy</i> , 2021, 12, 274. | 2.4 | 4 |
| 74 | Snail Upregulates Transcription of FN, LEF, COX2, and COL1A1 in Hepatocellular Carcinoma: A General Model Established for Snail to Transactivate Mesenchymal Genes. <i>Cells</i> , 2021, 10, 2202. | 1.8 | 4 |
| 75 | Emerging role of the itaconate-mediated rescue of cellular metabolic stress. <i>Tzu Chi Medical Journal</i> , 2022, 34, 134. | 0.4 | 4 |
| 76 | Hematopoietic stem cell mobilization. <i>Tzu Chi Medical Journal</i> , 2022, 34, 270. | 0.4 | 4 |
| 77 | RECOMBINANT SNAKE DISINTEGRINS USED FOR MAMMALIAN INTEGRIN STUDY. <i>Toxin Reviews</i> , 2005, 24, 95-111. | 1.5 | 3 |
| 78 | Megakaryocytic differentiation of mouse embryonic stem cells via coculture with immortalized OP9 stromal cells. <i>Experimental Cell Research</i> , 2015, 339, 44-50. | 1.2 | 3 |
| 79 | Correlation of Body Mass Index and Proinflammatory Cytokine Levels with Hematopoietic Stem Cell Mobilization. <i>Journal of Clinical Medicine</i> , 2022, 11, 4169. | 1.0 | 3 |
| 80 | RHODOSTOMIN, A SNAKE VENOM DISINTEGRIN, SERVED AS A MOLECULAR TOOL TO DISSECT THE INTEGRIN FUNCTION. <i>Toxin Reviews</i> , 2007, 26, 189-202. | 1.5 | 2 |