

Sang Jeon Chung

List of Publications by Year in descending order

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101
papers

3,478
citations

201674

27
h-index

155660

55
g-index

102
all docs

102
docs citations

102
times ranked

6444
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic Tryptophan Fluorescence in the Detection and Analysis of Proteins: A Focus on Förster Resonance Energy Transfer Techniques. <i>International Journal of Molecular Sciences</i> , 2014, 15, 22518-22538.	4.1	620
2	A Lactate-Induced Response to Hypoxia. <i>Cell</i> , 2015, 161, 595-609.	28.9	364
3	Fc-Binding Ligands of Immunoglobulin G: An Overview of High Affinity Proteins and Peptides. <i>Materials</i> , 2016, 9, 994.	2.9	153
4	A highly selective fluorescent ES IPT probe for the dual specificity phosphatase MKP-6. <i>Chemical Communications</i> , 2009, , 5895.	4.1	143
5	Recent Advances in pH-Sensitive Polymeric Nanoparticles for Smart Drug Delivery in Cancer Therapy. <i>Current Drug Targets</i> , 2018, 19, 300-317.	2.1	96
6	Structure of human β -enolase (hENO1), a multifunctional glycolytic enzyme. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 651-657.	2.5	93
7	Recent Advances in Target Characterization and Identification by Photoaffinity Probes. <i>Molecules</i> , 2013, 18, 10425-10451.	3.8	91
8	Controlled antibody immobilization onto immunoanalytical platforms by synthetic peptide. <i>Analytical Biochemistry</i> , 2008, 374, 99-105.	2.4	84
9	Acetylation of malate dehydrogenase 1 promotes adipogenic differentiation via activating its enzymatic activity. <i>Journal of Lipid Research</i> , 2012, 53, 1864-1876.	4.2	74
10	Mitochondria-Targeting Chromogenic and Fluorescence Turn-On Probe for the Selective Detection of Cysteine by Caged Oxazolidinocyanine. <i>Analytical Chemistry</i> , 2016, 88, 7178-7182.	6.5	72
11	Structure of Human Cytidine Deaminase Bound to a Potent Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 658-660.	6.4	67
12	Developing an antibody-binding protein cage as a molecular recognition drug modular nanoplatform. <i>Biomaterials</i> , 2012, 33, 5423-5430.	11.4	66
13	Annexin A4 interacts with the NF- κ B p50 subunit and modulates NF- κ B transcriptional activity in a Ca ²⁺ -dependent manner. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 2271-2281.	5.4	64
14	Color-Tunable Photoluminescent Fullerene Nanoparticles. <i>Advanced Materials</i> , 2012, 24, 1999-2003.	21.0	60
15	Selective inhibition of β -1,4- and β -1,3-galactosyltransferases: donor sugar-nucleotide based approach. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 401-409.	3.0	55
16	Biogenic nanomaterials: Synthesis, characterization, growth mechanism, and biomedical applications. <i>Journal of Microbiological Methods</i> , 2019, 157, 65-80.	1.6	55
17	Identification of sennoside A as a novel inhibitor of the slingshot (SSH) family proteins related to cancer metastasis. <i>Pharmacological Research</i> , 2017, 119, 422-430.	7.1	46
18	An operationally simple colorimetric assay of hyaluronidase activity using cationic gold nanoparticles. <i>Analyst</i> , The, 2009, 134, 1291.	3.5	44

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19	An Iminocoumarin-Based Fluorescent Probe for the Selective Detection of Dual-Specific Protein Tyrosine Phosphatases. <i>Chemistry - A European Journal</i> , 2010, 16, 5297-5300.	3.3	38
20	Crystal structure of EDY2: insight into dual roles as a protein tyrosine phosphatase and a transcription factor. <i>FASEB Journal</i> , 2010, 24, 560-569.	0.5	38
21	Simultaneous intracellular delivery of targeting antibodies and functional nanoparticles with engineered protein G system. <i>Biomaterials</i> , 2009, 30, 1197-1204.	11.4	37
22	Reclamation of hexavalent chromium using catalytic activity of highly recyclable biogenic Pd(0) nanoparticles. <i>Scientific Reports</i> , 2020, 10, 640.	3.3	37
23	Synthesis and anticancer activity of geldanamycin derivatives derived from biosynthetically generated metabolites. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 340-348.	2.8	36
24	Cascade enzyme-linked immunosorbent assay (CELISA). <i>Biosensors and Bioelectronics</i> , 2009, 25, 332-337.	10.1	35
25	Chemical constituents of the root bark of <i>Ulmus davidiana</i> var. <i>japonica</i> and their potential biological activities. <i>Bioorganic Chemistry</i> , 2019, 91, 103145.	4.1	31
26	Ginkgetin, a biflavone from <i>Ginkgo biloba</i> leaves, prevents adipogenesis through STAT5-mediated PPAR β and C/EBP β regulation. <i>Pharmacological Research</i> , 2019, 139, 325-336.	7.1	30
27	Insight into the stereochemistry in the inhibition of carboxypeptidase A with N-(hydroxyaminocarbonyl)phenylalanine: binding modes of an enantiomeric pair of the inhibitor to carboxypeptidase A. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 2015-2022.	3.0	29
28	Structures of End Products Resulting from Lesion Processing by a DNA Glycosylase/Lyase. <i>Chemistry and Biology</i> , 2004, 11, 1643-1649.	6.0	29
29	Sesquiterpenes from <i>Curcuma zedoaria</i> rhizomes and their cytotoxicity against human gastric cancer AGS cells. <i>Bioorganic Chemistry</i> , 2019, 87, 117-122.	4.1	28
30	Brief Report: L1 Cell Adhesion Molecule, a Novel Surface Molecule of Human Embryonic Stem cells, Is Essential for Self-Renewal and Pluripotency. <i>Stem Cells</i> , 2011, 29, 2094-2099.	3.2	27
31	Site-Selective ^2H Alkylation of Diazine $\langle i \rangle \text{N} \langle /i \rangle$ -Oxides Enabled by Phosphonium Ylides. <i>Organic Letters</i> , 2019, 21, 6488-6493.	4.6	27
32	Metal-induced redshift of optical spectra of gold nanoparticles: An instant, sensitive, and selective visual detection of lead ions. <i>International Biodeterioration and Biodegradation</i> , 2019, 144, 104740.	3.9	27
33	Cleavage of β -lactone ring by serine protease. Mechanistic implications. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 2553-2560.	3.0	26
34	Phosphoprotein phosphatase 1CB (PPP1CB), a novel adipogenic activator, promotes 3T3-L1 adipogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 211-217.	2.1	26
35	An ISFET biosensor for the monitoring of maltose-induced conformational changes in MBP. <i>FEBS Letters</i> , 2009, 583, 157-162.	2.8	24
36	Acceptor substrate-based selective inhibition of galactosyltransferases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 3359-3364.	2.2	23

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37	Directed immobilization of DNA-binding proteins on a cognate DNA-modified chip surface. <i>Journal of Biotechnology</i> , 2008, 135, 16-21.	3.8	23
38	Modulation of exosome-mediated mRNA turnover by interaction of GTP-binding protein 1 (GTPBP1) with its target mRNAs. <i>FASEB Journal</i> , 2011, 25, 2757-2769.	0.5	22
39	Cyclic peptide ligand with high binding capacity for affinity purification of immunoglobulin G. <i>Journal of Chromatography A</i> , 2016, 1466, 105-112.	3.7	22
40	Coenzyme Q ₁₀ alleviates tacrolimus-induced mitochondrial dysfunction in kidney. <i>FASEB Journal</i> , 2019, 33, 12288-12298.	0.5	22
41	A selective Seoul-Fluor-based bioprobe, SfBP, for vaccinia H1-related phosphatase's a dual-specific protein tyrosine phosphatase. <i>Chemical Communications</i> , 2012, 48, 6553.	4.1	21
42	Homogeneous detection of caspase-3 using intrinsic fluorescence resonance energy transfer (iFRET). <i>Biosensors and Bioelectronics</i> , 2015, 67, 413-418.	10.1	20
43	Ginkgolic acid as a dual-targeting inhibitor for protein tyrosine phosphatases relevant to insulin resistance. <i>Bioorganic Chemistry</i> , 2018, 81, 264-269.	4.1	20
44	Discovery of coumarin derivatives as fluorescence acceptors for intrinsic fluorescence resonance energy transfer of proteins. <i>Molecular BioSystems</i> , 2014, 10, 30-33.	2.9	19
45	Enzyme Mimetic Activity of ZnO-Pd Nanosheets Synthesized via a Green Route. <i>Molecules</i> , 2020, 25, 2585.	3.8	19
46	Identification of chebulinic acid as a dual targeting inhibitor of protein tyrosine phosphatases relevant to insulin resistance. <i>Bioorganic Chemistry</i> , 2019, 90, 103087.	4.1	18
47	Phytosynthesis of Palladium Nanoclusters: An Efficient Nanozyme for Ultrasensitive and Selective Detection of Reactive Oxygen Species. <i>Molecules</i> , 2020, 25, 3349.	3.8	18
48	Functionalized protein nanocages as a platform of targeted therapy and immunodetection. <i>Nanomedicine</i> , 2015, 10, 3579-3595.	3.3	17
49	Fridamycin A, a Microbial Natural Product, Stimulates Glucose Uptake without Inducing Adipogenesis. <i>Nutrients</i> , 2019, 11, 765.	4.1	17
50	Linoleic acid exerts antidiabetic effects by inhibiting protein tyrosine phosphatases associated with insulin resistance. <i>Journal of Functional Foods</i> , 2021, 83, 104532.	3.4	17
51	Inactivation of carboxypeptidase a by 2-benzyl-3,4-epithiobutanoic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 1667-1672.	2.2	16
52	A novel type of structurally simple nonpeptide inhibitors for $\hat{\pm}$ -chymotrypsin. Induced-fit binding of methyl 2-allyl-3-benzene-propanoate to the S2 subsite pocket. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 239-249.	3.0	16
53	Glyceraldehyde-3-Phosphate, a Glycolytic Intermediate, Plays a Key Role in Controlling Cell Fate Via Inhibition of Caspase Activity. <i>Molecules and Cells</i> , 2009, 28, 559-564.	2.6	16
54	Facile Synthesis of Triangular and Hexagonal Anionic Gold Nanoparticles and Evaluation of Their Cytotoxicity. <i>Nanomaterials</i> , 2019, 9, 1774.	4.1	16

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55	Synthesis of 3-fluoro-2-substituted amino-5,12-dihydro-5-oxobenzoxazolo[3,2-a]quinoline-6-carboxylic acids employing the tandem double ring closure reaction of N-acetyl-N-(2-hydroxyphenyl)anthranilic acid as the key step. <i>Tetrahedron</i> , 1995, 51, 12549-12562.	1.9	15
56	Mechanistic Insight into the Inactivation of Carboxypeptidase A by \hat{L} -Benzyl-2-oxo-1,3-oxazolidine-4-acetic Acid, a Novel Type of Irreversible Inhibitor for Carboxypeptidase A with No Stereospecificity. <i>Journal of Organic Chemistry</i> , 2001, 66, 6462-6471.	3.2	15
57	N-(Hydroxyaminocarbonyl)phenylalanine. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 185-189.	3.0	15
58	Mixed self-assembly of polydiacetylenes for highly specific and sensitive strip biosensors. <i>Biosensors and Bioelectronics</i> , 2008, 24, 480-484.	10.1	15
59	Development of a nanoparticle-based FRET sensor for ultrasensitive detection of phytoestrogen compounds. <i>Analyst</i> , 2010, 135, 2879.	3.5	14
60	Stimulation of angiogenesis and survival of endothelial cells by human monoclonal Tie2 receptor antibody. <i>Biomaterials</i> , 2015, 51, 119-128.	11.4	14
61	Metabolite Profile of Cucurbitane-Type Triterpenoids of Bitter Melon (Fruit of <i>Momordica</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Resistance. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 1816-1830.	5.2	14
62	Eco-Friendly Synthesis of SnO ₂ -Cu Nanocomposites and Evaluation of Their Peroxidase Mimetic Activity. <i>Nanomaterials</i> , 2021, 11, 1798.	4.1	14
63	Monitoring metal-amyloid- β complexation by a FRET-based probe: design, detection, and inhibitor screening. <i>Chemical Science</i> , 2019, 10, 1000-1007.	7.4	13
64	Protein tyrosine phosphatases (PTPs) in diabetes: causes and therapeutic opportunities. <i>Archives of Pharmacal Research</i> , 2021, 44, 310-321.	6.3	13
65	Irreversible inhibition of zinc-containing protease by oxazolidinone derivatives. Novel inactivation chemistry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 859-864.	2.2	12
66	Sulfamoylbenzamide-based Capsid Assembly Modulators for Selective Inhibition of Hepatitis B Viral Replication. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 242-248.	2.8	11
67	Efficient selection of IgG Fc domain-binding peptides fused to fluorescent protein using <i>E. coli</i> expression system and dot-blotting assay. <i>Peptides</i> , 2010, 31, 202-206.	2.4	10
68	Ethyl Gallate Dual-Targeting PTPN6 and PPAR β Shows Anti-Diabetic and Anti-Obese Effects. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5020.	4.1	10
69	Characteristics of Localized Surface Plasmon Resonance of Nanostructured Au Patterns for Biosensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4548-4552.	0.9	8
70	Real-time colorimetric screening of endopeptidase inhibitors using adenosine triphosphate (ATP)-stabilized gold nanoparticles. <i>Tetrahedron Letters</i> , 2010, 51, 2228-2231.	1.4	8
71	Identification of 3-acyl-2-phenylamino-1,4-dihydroquinolin-4-one derivatives as inhibitors of the phosphatase SerB653 in <i>Porphyromonas gingivalis</i> , implicated in periodontitis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2084-2088.	2.2	8
72	Structural basis for the dephosphorylating activity of PTPRQ towards phosphatidylinositide substrates. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1522-1529.	2.5	8

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73	Chebulinic Acid Suppresses Adipogenesis in 3T3-L1 Preadipocytes by Inhibiting PPP1CB Activity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 865.	4.1	8
74	Site-Selective Antibody-Drug Conjugation by a Proximity-Driven S to N Acyl Transfer Reaction on a Therapeutic Antibody. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 5751-5759.	6.4	8
75	Coenzyme Q10 encapsulated in micelles ameliorates osteoarthritis by inhibiting inflammatory cell death. <i>PLoS ONE</i> , 2022, 17, e0270351.	2.5	8
76	Molecular insight into the role of the leucine residue on the L2 loop in the catalytic activity of caspases 3 and 7. <i>Bioscience Reports</i> , 2012, 32, 305-313.	2.4	7
77	IgG Fc-binding peptide (FcBP)-tat conjugate as a smart antibody carrier into live cells. <i>Macromolecular Research</i> , 2015, 23, 876-881.	2.4	7
78	Label-Free Detection of Protein Tyrosine Phosphatase 1B (PTP1B) by Using a Rationally Designed Förster Resonance Energy Transfer (FRET) Probe. <i>ChemBioChem</i> , 2018, 19, 2495-2501.	2.6	7
79	A Novel Strategy for Designing Irreversible Inhibitors of Metalloproteases: Acetals as Latent Electrophiles That Interact with Catalytic Nucleophile at the Active Site. <i>Organic Letters</i> , 2000, 2, 3149-3152.	4.6	6
80	Real-time and label-free monitoring of nanoparticle cellular uptake using capacitance-based assays. <i>Scientific Reports</i> , 2016, 6, 33668.	3.3	6
81	Polyphyllin D Shows Anticancer Effect through a Selective Inhibition of Src Homology Region 2-Containing Protein Tyrosine Phosphatase-2 (SHP2). <i>Molecules</i> , 2021, 26, 848.	3.8	6
82	Terminalin from African Mango (<i>Irvingia gabonensis</i>) Stimulates Glucose Uptake through Inhibition of Protein Tyrosine Phosphatases. <i>Biomolecules</i> , 2022, 12, 321.	4.0	6
83	3-Fluoro-2-(4-methylpiperazin-1-yl)-5,12-dihydro-5-oxobenzoxazolo[3,2-a]quinoline-6-carboxylic acid: Synthesis and In vitro cytotoxic activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 1953-1956.	2.2	5
84	Identification of Vaccinia H1 Related Phosphatase as an Anticancer Target for 1,2,3,4,6-O-Pentagalloylglucose. <i>Chemistry and Biodiversity</i> , 2020, 17, e1900414.	2.1	5
85	Phloridzin Acts as an Inhibitor of Protein-Tyrosine Phosphatase MEG2 Relevant to Insulin Resistance. <i>Molecules</i> , 2021, 26, 1612.	3.8	5
86	Convenient synthesis of 6-substituted-2-chloro-5,12-dihydro-5-oxobenzoxazolo[3,2-a]quinolines and N-acylated-3-chlorodibenz[b,e][1,4]oxazepin-11(5H)-ones. <i>Journal of Heterocyclic Chemistry</i> , 1997, 34, 485-488.	2.6	4
87	Large-scale expression in <i>Escherichia coli</i> and efficient purification of precursor and active caspase-7 by introduction of thrombin cleavage sites. <i>Protein Expression and Purification</i> , 2010, 69, 29-33.	1.3	4
88	Fabrication of Nanoporous TiO ₂ Hollow Capsules Using Core-Shell Silica Nanoparticle Templates. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1604-1607.	0.9	4
89	ToF-SIMS analysis of diadenosine triphosphate and didadenosine tetraphosphate using bismuth and argon cluster ion beams. <i>Surface and Interface Analysis</i> , 2014, 46, 189-192.	1.8	4
90	Nepetin Acts as a Multi-Targeting Inhibitor of Protein Tyrosine Phosphatases Relevant to Insulin Resistance. <i>Chemistry and Biodiversity</i> , 2022, 19, e2100600.	2.1	4

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91	Structure-Activity Relationship of Synthetic Ginkgolic Acid Analogs for Treating Type 2 Diabetes by PTPN9 Inhibition. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3927.	4.1	4
92	Synthesis and Evaluation of 3-Fluoro-2-piperazinyl-5,8,13-trihydro-5-oxoquino[1,2-a][3,1]benzoxazine-6-carboxylic Acids as Potential Antibacterial Agents. <i>Archiv Der Pharmazie</i> , 1997, 330, 63-66.	4.1	3
93	Crystal structure of xenotropic murine leukaemia virus-related virus (XMRV) ribonuclease H. <i>Bioscience Reports</i> , 2012, 32, 455-463.	2.4	3
94	Development of Stable Non-Ionic Lipid Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11873-11881.	0.9	3
95	A potent reporter applicable to the monitoring of caspase-3-dependent proteolytic cleavage. <i>Journal of Biotechnology</i> , 2008, 138, 17-23.	3.8	2
96	Structural asymmetry of procaspase-7 bound to a specific inhibitor. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1514-1521.	2.5	2
97	Intrinsic Förster Resonance Energy Transfer Imaging Technique for Detection of Native Protein in Live Cells. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 129-135.	1.9	2
98	Photoconjugation of an Fc-Specific Peptide Enables Efficient DAR 2 Antibody-Drug Conjugate Formation. <i>Organic Letters</i> , 2020, 22, 8419-8423.	4.6	1
99	A FRET-Based Fluorescent Probe to Screen Anticancer Drugs, Inhibiting p73 Binding to MDM2. <i>ChemBioChem</i> , 2021, 22, 830-833.	2.6	1
100	Synthesis of Functionalized Silica Particles for Label-free Detection of PTP1B Using FRET. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 1172-1177.	1.9	0
101	Proteomic analysis of oxidative stress-induced neuronal cell death by using two-dimensional fluorescence difference gel electrophoresis. <i>International Journal of Molecular Medicine</i> , 2010, 26, 829-35.	4.0	0