

Se-Chul Chun

List of Publications by Year in descending order

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102
papers

2,897
citations

279487

23
h-index

197535

49
g-index

103
all docs

103
docs citations

103
times ranked

3827
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and characterization of plant growth promoting endophytic diazotrophic bacteria from Korean rice cultivars. <i>Microbiological Research</i> , 2014, 169, 83-98.	2.5	314
2	Phenolic Compound Concentration and Antioxidant Activities of Edible and Medicinal Mushrooms from Korea. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 7265-7270.	2.4	296
3	Relationship between Phenolic Compounds, Anthocyanins Content and Antioxidant Activity in Colored Barley Germplasm. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 4802-4809.	2.4	194
4	Antibacterial Activity of Chitosan Nanoparticles: A Review. <i>Processes</i> , 2020, 8, 1173.	1.3	165
5	Proline Accumulation Influenced by Osmotic Stress in Arbuscular Mycorrhizal Symbiotic Plants. <i>Frontiers in Microbiology</i> , 2018, 9, 2525.	1.5	149
6	Over-expression of strawberry d-galacturonic acid reductase in potato leads to accumulation of vitamin C with enhanced abiotic stress tolerance. <i>Plant Science</i> , 2009, 177, 659-667.	1.7	128
7	Preparation and In Vitro Characterization of Chitosan Nanoparticles and Their Broad-Spectrum Antifungal Action Compared to Antibacterial Activities against Phytopathogens of Tomato. <i>Agronomy</i> , 2019, 9, 21.	1.3	112
8	Chitosan and chitosan nanoparticles induced expression of pathogenesis-related proteins genes enhances biotic stress tolerance in tomato. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 948-954.	3.6	110
9	Bactericidal activity of green tea extracts: the importance of catechin containing nano particles. <i>Scientific Reports</i> , 2016, 6, 19710.	1.6	84
10	Biological control of Phytophthora blight of pepper by antagonistic rhizobacteria selected from a sequential screening procedure. <i>Biological Control</i> , 2008, 46, 424-433.	1.4	67
11	Expression of PR-protein genes and induction of defense-related enzymes by <i>Bacillus subtilis</i> CBR05 in tomato (<i>Solanum lycopersicum</i>) plants challenged with <i>Erwinia carotovora</i> subsp. <i>carotovora</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 2277-2283.	0.6	64
12	Biochemical analysis of enhanced tolerance in transgenic potato plants overexpressing d-galacturonic acid reductase gene in response to various abiotic stresses. <i>Molecular Breeding</i> , 2011, 28, 105-115.	1.0	60
13	Crustacean Waste-Derived Chitosan: Antioxidant Properties and Future Perspective. <i>Antioxidants</i> , 2021, 10, 228.	2.2	56
14	Enhancement of vitality and activity of a plant growth-promoting bacteria (PGPB) by atmospheric pressure non-thermal plasma. <i>Scientific Reports</i> , 2019, 9, 1044.	1.6	46
15	Proteases from phytopathogenic fungi and their importance in phytopathogenicity. <i>Journal of General Plant Pathology</i> , 2016, 82, 233-239.	0.6	41
16	Expression of Î²-1,3-glucanase (GLU) and phenylalanine ammonia-lyase (PAL) genes and their enzymes in tomato plants induced after treatment with <i>Bacillus subtilis</i> CBR05 against <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> . <i>Journal of General Plant Pathology</i> , 2017, 83, 7-13.	0.6	37
17	Isolation and characterisation of a dwarf rice mutant exhibiting defective gibberellins biosynthesis. <i>Plant Biology</i> , 2014, 16, 428-439.	1.8	34
18	Exploiting Microbial Polysaccharides for Biosorption of Trace Elements in Aqueous Environments—Scope for Expansion via Nanomaterial Intervention. <i>Polymers</i> , 2017, 9, 721.	2.0	31

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19	Mycoremediation of PCBs by <i>Pleurotus ostreatus</i> : Possibilities and Prospects. <i>Applied Sciences</i> (Switzerland), 2019, 9, 4185.	1.3	31
20	Taxonomy of <i>Fusarium fujikuroi</i> species complex associated with bakanae on rice in Korea. <i>Australasian Plant Pathology</i> , 2018, 47, 23-34.	0.5	29
21	Antioxidant Activity of Mushroom Extracts/Polysaccharides Their Antiviral Properties and Plausible AntiCOVID-19 Properties. <i>Antioxidants</i> , 2021, 10, 1899.	2.2	28
22	Unprecedented nitrate adsorption efficiency of carbon-silicon nano composites prepared from bamboo leaves. <i>Materials Chemistry and Physics</i> , 2017, 189, 12-21.	2.0	27
23	<i>Bacillus subtilis</i> CBR05 for Tomato (<i>Solanum lycopersicum</i>) Fruits in South Korea as a Novel Plant Probiotic Bacterium (PPB): Implications from Total Phenolics, Flavonoids, and Carotenoids Content for Fruit Quality. <i>Agronomy</i> , 2019, 9, 838.	1.3	27
24	Characterization of <i>Bacillus luciferensis</i> Strain KJ2C12 from Pepper Root, a Biocontrol Agent of Phytophthora Blight of Pepper. <i>Plant Pathology Journal</i> , 2009, 25, 62-69.	0.7	27
25	Meta-analysis Reveals That the Genus <i>Pseudomonas</i> Can Be a Better Choice of Biological Control Agent against Bacterial Wilt Disease Caused by <i>Ralstonia solanacearum</i> . <i>Plant Pathology Journal</i> , 2016, 32, 216-227.	0.7	24
26	The ethanopharmacological aspect of carbon nanodots in turmeric smoke. <i>Scientific Reports</i> , 2016, 6, 35586.	1.6	23
27	Ultrasound mediated accelerated Anti-influenza activity of <i>Aloe vera</i> . <i>Scientific Reports</i> , 2018, 8, 17782.	1.6	22
28	Effect of adenovirus and influenza virus infection on obesity. <i>Life Sciences</i> , 2013, 93, 531-535.	2.0	20
29	One-step, ultrasonication-mobilized, solvent-free extraction/synthesis of nanocurcumin from turmeric. <i>RSC Advances</i> , 2015, 5, 48391-48398.	1.7	20
30	Sustainable ecofriendly phytoextract mediated one pot green recovery of chitosan. <i>Scientific Reports</i> , 2019, 9, 13832.	1.6	20
31	The effect of spent mushroom sawdust compost mixes, calcium cyanamide and solarization on basal stem rot of the cactus <i>Hylocereus trigonus</i> caused by <i>Fusarium oxysporum</i> . <i>Crop Protection</i> , 2007, 26, 162-168.	1.0	19
32	<i>Penicillium brasilianum</i> as a novel pathogen of onion (<i>Allium cepa</i> L.) and other fungi predominant on market onion in Korea. <i>Crop Protection</i> , 2014, 65, 138-142.	1.0	19
33	Biological Desorption Electrospray Ionization Mass Spectrometry (DESI MS) unequivocal role of crucial ionization factors, solvent system and substrates. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 78, 109-119.	5.8	18
34	<i>Bacillus subtilis</i> CBR05 induces Vitamin B6 biosynthesis in tomato through the de novo pathway in contributing disease resistance against <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> . <i>Scientific Reports</i> , 2019, 9, 6495.	1.6	18
35	Effects of Dietary Conjugated Linoleic Acid and Biopolymer Encapsulation on Lipid Metabolism in Mice. <i>International Journal of Molecular Sciences</i> , 2013, 14, 6848-6862.	1.8	17
36	Expression Analysis of Rice Pathogenesis-related Proteins Involved in Stress Response and Endophytic Colonization Properties of gfp-tagged <i>Bacillus subtilis</i> CB-R05. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 231-241.	1.4	17

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37	Molecular epidemiology of begomoviruses occurring on some vegetables, grain legume and weed species in the Terai belt of north India. <i>Journal of Plant Diseases and Protection</i> , 2014, 121, 53-57.	1.6	17
38	Nature nominee quercetin's anti-influenza combat strategy—Demonstrations and remonstrations. <i>Reviews in Medical Virology</i> , 2017, 27, e1930.	3.9	16
39	Water soluble nanocurcumin extracted from turmeric challenging the microflora from human oral cavity. <i>Food Chemistry</i> , 2016, 211, 903-909.	4.2	15
40	First report of <i>Aspergillus awamori</i> as a fungal pathogen of garlic (<i>Allium sativum</i> L.). <i>Crop Protection</i> , 2016, 85, 65-70.	1.0	15
41	Ultrasonication assisted ultrafast extraction of <i>Tagetes erecta</i> in water: cannonading antimicrobial, antioxidant components. <i>Journal of Molecular Liquids</i> , 2017, 229, 453-458.	2.3	15
42	The ongoing evolution of laser desorption/ionization mass spectrometry: Some observations on current trends and future directions. <i>Journal of Mass Spectrometry</i> , 2018, 53, 525-540.	0.7	15
43	The Major Postharvest Disease of Onion and Its Control with Thymol Fumigation During Low-Temperature Storage. <i>Mycobiology</i> , 2018, 46, 242-253.	0.6	15
44	<i>Rudaeicoccus suwonensis</i> gen. nov., sp. nov., an actinobacterium isolated from the epidermal tissue of a root of a <i>Phalaenopsis</i> orchid. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1291-1296.	0.8	13
45	Sonophysical cost effective rapid indigenous preparation of aluminium particles via exfoliation of aluminium foil. <i>RSC Advances</i> , 2016, 6, 32405-32413.	1.7	13
46	Bactericidal Property of Macro-, Micro- and Nanocurcumin: An Assessment. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 2087-2093.	1.1	13
47	Effects of biopolymer encapsulation on trans fatty acid digestibility in an in vitro human digestion system. <i>Food and Function</i> , 2013, 4, 1827.	2.1	12
48	Nanopost array laser desorption ionization mass spectrometry (NAPA-LDI MS): Gathering moss?. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 97, 96-103.	5.8	12
49	Silver nanoparticle-induced hormesis of astrogloma cells: A Mu-2-related death-inducing protein-orchestrated modus operandi. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 1147-1156.	3.6	12
50	Phenomenal Bombardment of Antibiotic in Poultry: Contemplating the Environmental Repercussions. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5053.	1.2	12
51	Enhancement of Biocontrol Activity of Antagonistic <i>Chryseobacterium</i> Strain KJ1R5 by Adding Carbon Sources against <i>Phytophthora capsici</i> . <i>Plant Pathology Journal</i> , 2008, 24, 164-170.	0.7	12
52	Induction of defence-related enzymes in tomato (<i>Solanum lycopersicum</i>) plants treated with <i>Bacillus subtilis</i> CBR05 against <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> . <i>Biocontrol Science and Technology</i> , 2016, 26, 1366-1378.	0.5	11
53	Assays Evaluating Antimicrobial Activity of Nanoparticles: A Myth Buster. <i>Journal of Cluster Science</i> , 2018, 29, 207-213.	1.7	11
54	Vitamin B6 biosynthetic genes expression and antioxidant enzyme properties in tomato against, <i>Erwinia carotovora</i> subsp. <i>carotovora</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 116, 31-36.	3.6	11

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55	Begomoviruses and Their Emerging Threats in South Korea: A Review. <i>Plant Pathology Journal</i> , 2012, 28, 123-136.	0.7	11
56	Antibacterial Activity of Nanoparticles of Garlic (<i>Allium sativum</i>) Extract against Different Bacteria Such as <i>Streptococcus mutans</i> and <i>Poryphormonas gingivalis</i> . <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3491.	1.3	11
57	Effect of Thymol and Linalool Fumigation on Postharvest Diseases of Table Grapes. <i>Mycobiology</i> , 2014, 42, 262-268.	0.6	10
58	First report of <i>Penicillium georgiense</i> as a fungal pathogen of onion (<i>Allium cepa</i> L.). <i>Crop Protection</i> , 2015, 72, 83-89.	1.0	10
59	Phytoremediation potential of chromium-containing tannery effluent-contaminated soil by native Indian timber-yielding tree species. <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 100-108.	1.0	10
60	Nanotherapeutic Anti-influenza Solutions: Current Knowledge and Future Challenges. <i>Journal of Cluster Science</i> , 2018, 29, 933-941.	1.7	10
61	The microbial population in the air of cultivation facility of oyster mushrooms. <i>Journal of Microbiology</i> , 2012, 50, 1053-1057.	1.3	9
62	State-of-the-art nanoplatform-integrated MALDI-MS impacting resolutions in urinary proteomics. <i>Proteomics - Clinical Applications</i> , 2015, 9, 469-481.	0.8	9
63	Isolation, characterization and molecular three-dimensional structural predictions of metalloprotease from a phytopathogenic fungus, <i>Alternaria solani</i> (Ell. and Mart.) Sor.. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 131-139.	1.1	9
64	Purification and characterization of a highly active chromate reductase from endophytic <i>Bacillus</i> sp. DGV19 of <i>Albizia lebeck</i> (L.) Benth. actively involved in phytoremediation of tannery effluent-contaminated sites. <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 192-199.	1.0	9
65	Characterization of Soil Microorganism from Humus and Indigenous Microorganism Amendments. <i>Mycobiology</i> , 2020, 48, 392-398.	0.6	9
66	Mating Types and Optimum Culture Conditions for Sexual State Formation of <i>Fusarium fujikuroi</i> Isolates. <i>Mycobiology</i> , 2009, 37, 247.	0.6	9
67	Data mining technique for medical informatics: detecting gastric cancer using case-based reasoning and single nucleotide polymorphisms. <i>Expert Systems</i> , 2008, 25, 163-172.	2.9	8
68	A Single-Step Purification of Cauliflower Lysozyme and Its Dual Role Against Bacterial and Fungal Plant Pathogens. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 556-566.	1.4	8
69	Green Tea Versus Traditional Korean Teas: Antibacterial/Antifungal or Both?. <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 780-790.	1.4	8
70	Clinical MALDI mass spectrometry for tuberculosis diagnostics: Speculating the methodological blueprint and contemplating the obligation to improvise. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 94, 190-199.	5.8	8
71	Nanotoxic impacts on staple food crops: There's plenty of room for the unpredictables. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 3725-3736.	5.4	8
72	An analytical retrospection of mass spectrometric tools established for plant tissue culture: Current endeavours and future perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 126, 115843.	5.8	7

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73	First Report of a <i>Croton yellow vein mosaic virus</i> (<i>CYVMV</i>) Associated with Tomato Leaf Curl Disease in India. <i>Journal of Phytopathology</i> , 2015, 163, 777-779.	0.5	6
74	Transubstantiating commercial mushroom market with ultrasonically ultrasized mushroom powders showcasing higher bioactivity. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 1082-1094.	3.6	6
75	Isolation and Characterization of Avirulent and Virulent Strains of <i>Agrobacterium tumefaciens</i> from Rose Crown Gall in Selected Regions of South Korea. <i>Plants</i> , 2019, 8, 452.	1.6	6
76	The MUDENG Augmentation: A Genesis in Anti-Cancer Therapy?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5583.	1.8	6
77	Insights into Bioinformatic Applications for Glycosylation: Instigating an Awakening towards Applying Glycoinformatic Resources for Cancer Diagnosis and Therapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9336.	1.8	6
78	Retrospecting the Antioxidant Activity of Japanese Matcha Green Tea—Lack of Enthusiasm?. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5087.	1.3	6
79	A Seedborne Fungus <i>Bipolaris spicifera</i> Detected from Imported Grass Seeds. <i>Plant Pathology Journal</i> , 2003, 19, 133-137.	0.7	6
80	Attenuated total reflection fourier transform infrared spectroscopy towards disclosing mechanism of bacterial adhesion on thermally stabilized titanium nano-interfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 135.	1.7	5
81	An agile, simplified and sonication mediated one-pot aqueous extraction and antibacterial assessment of predominant Korean mushrooms. <i>RSC Advances</i> , 2016, 6, 12143-12157.	1.7	5
82	The unequivocal preponderance of biocomputation in clinical virology. <i>RSC Advances</i> , 2018, 8, 17334-17345.	1.7	5
83	Virus-like Particles and Cellular Changes in Plants Infected with Sweetpotato Viruses. <i>Plant Pathology Journal</i> , 2008, 24, 36-45.	0.7	5
84	The contribution of endophytic bacteria to <i>Albizia lebbeck</i> -mediated phytoremediation of tannery effluent contaminated soil. <i>International Journal of Phytoremediation</i> , 2016, 18, 77-86.	1.7	4
85	In Silico Tools and Phosphoproteomic Software Exclusives. <i>Processes</i> , 2019, 7, 869.	1.3	4
86	Reckoning the Dearth of Bioinformatics in the Arena of Diabetic Nephropathy (DN)—Need to Improve. <i>Processes</i> , 2020, 8, 808.	1.3	4
87	Evaluating the Anticarcinogenic Activity of Surface Modified/Functionalized Nanochitosan: The Emerging Trends and Endeavors. <i>Polymers</i> , 2021, 13, 3138.	2.0	4
88	Exploring the Impact of Chitosan Composites as Artificial Organs. <i>Polymers</i> , 2022, 14, 1587.	2.0	4
89	Autochthonous self-assembly of nature's nanomaterials: green, parsimonious and antibacterial carbon nanofilms on glass. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18670-18677.	1.3	3
90	Nanocarbon Effect of Smoking Biofilms for Effective Control. <i>Journal of Cluster Science</i> , 2018, 29, 541-548.	1.7	3

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91	Enhanced Harnessing of the Graviola Bioactive Components Using a Neoteric Sonication Cum Microwave Coadjuvant Extraction Protocol. Applied Sciences (Switzerland), 2018, 8, 232.	1.3	3
92	Enhancing the Biological Control of Rice Seedling Disease by Adding Specific Carbon Sources into the Bacillus cereus D324 Formulation in Water-Seeded Rice. Plant Pathology Journal, 2008, 24, 58-62.	0.7	3
93	Identification of Fusarium fujikuroi Isolated from Barnyard Grass and Possibility of Inoculum Source of Bakanae Disease on Rice. Research in Plant Disease, 2011, 17, 82-85.	0.3	2
94	Tetrapyrrole Accumulation in in vitro Selected Somaclones of Acifluorfen-Tolerant Solanum ptycanthum Dun. Plant Cell, Tissue and Organ Culture, 2004, 76, 167-174.	1.2	1
95	De novo synthesis of novel bacteriogenic nanocell particles and its cancer cell compatibility evaluation. RSC Advances, 2015, 5, 79792-79799.	1.7	1
96	Iron Oxide Magnetic Nanoparticles Mediated Extraction of Toxic Bile Acids Form Inexpensive Nutrient Media for Unprecedented Growth Enhancement of Halophilic Bacteria. Journal of Nanoscience and Nanotechnology, 2016, 16, 9468-9476.	0.9	1
97	A state-of-art review on the agility of quantitative proteomics in tuberculosis research. TrAC - Trends in Analytical Chemistry, 2018, 102, 369-378.	5.8	1
98	Cultural Characteristics of a Seedborne Fungus, Bipolaris spicifera Detected from Imported Grass Seeds into Korea. Mycobiology, 2004, 32, 186.	0.6	0
99	Synergistic bacterio-myco soyabean co-fermentation methodology for harnessing the unexhausted. Journal of Food Processing and Preservation, 2018, 42, e13412.	0.9	0
100	Pertinency of Pulsed Sonication for Activating Commercial Yeast Clusters. Journal of Cluster Science, 2018, 29, 641-648.	1.7	0
101	Status Quo of Glycosylation in Cancer: What Is, What Is Not and What Is to Be. Applied Sciences (Switzerland), 2020, 10, 8401.	1.3	0
102	The Diazotroph as an Endophyte and How a Diazotroph Interacts with Its Plant Host. Advances in Environmental Microbiology, 2021, , 391-423.	0.1	0