Jong-Rok Jeon

List of Publications by Year in descending order

38 papers	1,926 citations	236925 25 h-index	330143 37 g-index
39 all docs	39 docs citations	39 times ranked	2550 citing authors

#	Article	IF	Citations
1	Laccaseâ€catalysed oxidations of naturally occurring phenols: from in vivo biosynthetic pathways to green synthetic applications. Microbial Biotechnology, 2012, 5, 318-332.	4.2	193
2	Effect of metal ions on reactive dye decolorization by laccase from Ganoderma lucidum. Journal of Hazardous Materials, 2009, 168, 523-529.	12.4	138
3	Enhanced transformation of triclosan by laccase in the presence of redox mediators. Water Research, 2010, 44, 298-308.	11.3	118
4	Degradation of synthetic pollutants in real wastewater using laccase encapsulated in coreâ€“shell magnetic copper alginate beads. Bioresource Technology, 2016, 216, 203-210.	9.6	116
5	Cadmium adsorption characteristics of biochars derived using various pine tree residues and pyrolysis temperatures. Journal of Colloid and Interface Science, 2019, 553, 298-307.	9.4	115
6	Biodegradation of 1,4-dioxane and transformation of related cyclic compounds by a newly isolated Mycobacterium sp. PH-06. Biodegradation, 2009, 20, 511-519.	3.0	96
7	Laccase-mediated oxidation of small organics: bifunctional roles for versatile applications. Trends in Biotechnology, 2013, 31, 335-341.	9.3	96
8	Enhanced transformation of malachite green by laccase of Ganoderma lucidum in the presence of natural phenolic compounds. Applied Microbiology and Biotechnology, 2009, 82, 341-350.	3.6	87
9	Laccaseâ€catalysed polymeric dye synthesis from plantâ€derived phenols for potential application in hair dyeing: Enzymatic colourations driven by homoâ€or heteroâ€polymer synthesis. Microbial Biotechnology, 2010, 3, 324-335.	4.2	82
10	Nano/bio treatment of polychlorinated biphenyls with evaluation of comparative toxicity. Journal of Hazardous Materials, 2015, 287, 335-341.	12.4	73
11	Use of grape seed and its natural polyphenol extracts as a natural organic coagulant for removal of cationic dyes. Chemosphere, 2009, 77, 1090-1098.	8.2	70
12	Synergistic Release of Crop Nutrients and Stimulants from Hydroxyapatite Nanoparticles Functionalized with Humic Substances: Toward a Multifunctional Nanofertilizer. ACS Omega, 2020, 5, 6598-6610.	3.5	65
13	Metal-Chelation-Assisted Deposition of Polydopamine on Human Hair: A Ready-to-Use Eumelanin-Based Hair Dyeing Methodology. ACS Biomaterials Science and Engineering, 2017, 3, 628-636.	5.2	63
14	Synergistic effect of laccase mediators on pentachlorophenol removal by Ganoderma lucidum laccase. Applied Microbiology and Biotechnology, 2008, 81, 783-790.	3.6	60
15	Enzymatic polymerization of plant-derived phenols for material-independent and multifunctional coating. Journal of Materials Chemistry B, 2013, 1, 6501.	5.8	54
16	Bioremediation of PCDD/Fs-contaminated municipal solid waste incinerator fly ash by a potent microbial biocatalyst. Journal of Hazardous Materials, 2008, 157, 114-121.	12.4	46
17	Artificial humification of lignin architecture: Top-down and bottom-up approaches. Biotechnology Advances, 2019, 37, 107416.	11.7	46
18	Fungal Laccase-Catalyzed Oxidation of Naturally Occurring Phenols for Enhanced Germination and Salt Tolerance of Arabidopsis thaliana: A Green Route for Synthesizing Humic-like Fertilizers. Journal of Agricultural and Food Chemistry, 2017, 65, 1167-1177.	5.2	42

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19	Sorption behavior of malachite green onto pristine lignin to evaluate the possibility as a dye adsorbent by lignin. Applied Biological Chemistry, 2019, 62, .	1.9	41
20	One-Pot Transformation of Technical Lignins into Humic-Like Plant Stimulants through Fenton-Based Advanced Oxidation: Accelerating Natural Fungus-Driven Humification. ACS Omega, 2018, 3, 7441-7453.	3.5	34
21	Zerovalent-Iron/Platinum Janus Micromotors with Spatially Separated Functionalities for Efficient Water Decontamination. ACS Applied Nano Materials, 2018, 1, 768-776.	5.0	32
22	Humic acid enhances heat stress tolerance via transcriptional activation of Heat-Shock Proteins in Arabidopsis. Scientific Reports, 2020, 10, 15042.	3.3	31
23	Aerobic bacterial catabolism of persistent organic pollutants â€" potential impact of biotic and abiotic interaction. Current Opinion in Biotechnology, 2016, 38, 71-78.	6.6	30
24	Structural variation of humic-like substances and its impact on plant stimulation: Implication for structure-function relationship of soil organic matters. Science of the Total Environment, 2020, 725, 138409.	8.0	30
25	Coupling microbial catabolic actions with abiotic redox processes: A new recipe for persistent organic pollutant (POP) removal. Biotechnology Advances, 2013, 31, 246-256.	11.7	29
26	Humic Acid Confers HIGH-AFFINITY K+ TRANSPORTER 1-Mediated Salinity Stress Tolerance in Arabidopsis. Molecules and Cells, 2017, 40, 966-975.	2.6	27
27	Mineralization and transformation of monofluorophenols by Pseudonocardia benzenivorans. Applied Microbiology and Biotechnology, 2010, 87, 1569-1577.	3.6	24
28	Fungal mycelia functionalization with halloysite nanotubes for hyphal spreading and sorption behavior regulation: A new bio-ceramic hybrid for enhanced water treatment. Water Research, 2020, 186, 116380.	11.3	17
29	Dihydroxynaphthaleneâ€based mimicry of fungal melanogenesis for multifunctional coatings. Microbial Biotechnology, 2016, 9, 305-315.	4.2	14
30	Calcium Phosphate Particles Coated with Humic Substances: A Potential Plant Biostimulant from Circular Economy. Molecules, 2021, 26, 2810.	3.8	12
31	Which Traits of Humic Substances Are Investigated to Improve Their Agronomical Value?. Molecules, 2021, 26, 760.	3.8	10
32	Transcriptome Changes Reveal the Molecular Mechanisms of Humic Acid-Induced Salt Stress Tolerance in Arabidopsis. Molecules, 2021, 26, 782.	3.8	9
33	Effects of Microbes from Coal-Related Commercial Humic Substances on Hydroponic Crop Cultivation: A Microbiological View for Agronomical Use of Humic Substances. Journal of Agricultural and Food Chemistry, 2021, 69, 805-814.	5.2	7
34	Crop root Exudate Compositionâ€Dependent Disassembly of Ligninâ€Feâ€Hydroxyapatite Supramolecular Structures: A Better Rhizosphere Sensing Platform for Smart Fertilizer Development. Advanced Sustainable Systems, 2021, 5, 2100113.	5.3	6
35	Synthesis of Plant Phenol-derived Polymeric Dyes for Direct or Mordant-based Hair Dyeing. Journal of Visualized Experiments, 2016, , .	0.3	5
36	Role of Graphene Family Nanomaterials in Skin Wound Healing and Regeneration. Advances in Experimental Medicine and Biology, 2022, 1351, 89-105.	1.6	5

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37	Structure and action mechanism of humic substances for plant stimulations. Journal of the Korean Society of Grassland and Forage Science, 2018, 38, 175-179.	0.2	1
38	Microbial Volatile Organic Compound (VOC)-Driven Dissolution and Surface Modification of Phosphorus-Containing Soil Minerals for Plant Nutrition: An Indirect Route for VOC-Based Plantâ€“Microbe Communications. Journal of Agricultural and Food Chemistry, 2021, 69, 14478-14487.	5.2	1