Ryo Sekine

List of Publications by Year
in descending order

30 papers	1,189 citations	430874 18 h-index	454955 30 g-index
31 all docs	31 docs citations	31 times ranked	2189 citing authors

#	Article	IF	Citations
1	Silver speciation and release in commercial antimicrobial textiles as influenced by washing. Chemosphere, 2014, 111, 352-358.	8.2	100
2	Speciation and Lability of Ag-, AgCl-, and Ag₂S-Nanoparticles in Soil Determined by X-ray Absorption Spectroscopy and Diffusive Gradients in Thin Films. Environmental Science & Technology, 2015, 49, 897-905.	10.0	99
3	Silver sulfide nanoparticles (Ag₂S-NPs) are taken up by plants and are phytotoxic. Nanotoxicology, 2015, 9, 1041-1049.	3.0	96
4	Fate of zinc and silver engineered nanoparticles in sewerage networks. Water Research, 2015, 77, 72-84.	11.3	96
5	Silver Nanoparticles Entering Soils via the Wastewaterâ€“Sludgeâ€“Soil Pathway Pose Low Risk to Plants but Elevated Cl Concentrations Increase Ag Bioavailability. Environmental Science & Technology, 2016, 50, 8274-8281.	10.0	92
6	Analytical characterisation of nanoscale zero-valent iron: A methodological review. Analytica Chimica Acta, 2016, 903, 13-35.	5.4	87
7	Molecular Characterization of DNA Double Strand Breaks with Tipâ€Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2014, 53, 169-172.	13.8	77
8	Bio-sensing with butterfly wings: naturally occurring nano-structures for SERS-based malaria parasite detection. Physical Chemistry Chemical Physics, 2015, 17, 21164-21168.	2.8	57
9	Aging of Dissolved Copper and Copperâ€based Nanoparticles in Five Different Soils: Shortâ€term Kinetics vs. Longâ€term Fate. Journal of Environmental Quality, 2017, 46, 1198-1205.	2.0	55
10	Complementary Imaging of Silver Nanoparticle Interactions with Green Algae: Dark-Field Microscopy, Electron Microscopy, and Nanoscale Secondary Ion Mass Spectrometry. ACS Nano, 2017, 11, 10894-10902.	14.6	54
11	Quantifying the adsorption of ionic silver and functionalized nanoparticles during ecotoxicity testing: Test container effects and recommendations. Nanotoxicology, 2015, 9, 1005-1012.	3.0	48
12	Chemical analysis of acoustically levitated drops by Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2009, 394, 1433-1441.	3.7	46
13	In Situ Chemical Transformations of Silver Nanoparticles along the Waterâ€“Sediment Continuum. Environmental Science & Technology, 2015, 49, 318-325.	10.0	37
14	Phosphorus availability of sewage sludgeâ€based fertilizers determined by the diffusive gradients in thin films (DGT) technique. Journal of Plant Nutrition and Soil Science, 2017, 180, 594-601.	1.9	31
15	Surface Immobilization of Engineered Nanomaterials for in Situ Study of their Environmental Transformations and Fate. Environmental Science & Technology, 2013, 47, 9308-9316.	10.0	28
16	Microspectroscopy reveals dust-derived apatite grains in acidic, highly-weathered Hawaiian soils. Geoderma, 2021, 381, 114681.	5.1	22
17	Determination of Phosphorus Fertilizer Soil Reactions by Raman and Synchrotron Infrared Microspectroscopy. Applied Spectroscopy, 2013, 67, 1165-1170.	2.2	21
18	Raman, infrared and computational analysis of genistein and its methoxy derivatives. Vibrational Spectroscopy, 2011, 57, 306-314.	2.2	20

#	Article	IF	Citations
19	Finding Nano: Challenges Involved in Monitoring the Presence and Fate of Engineered Titanium Dioxide Nanoparticles in Aquatic Environments. Water (Switzerland), 2021, 13, 734.	2.7	19
20	Characterization of phosphorus compounds in soils by deep ultraviolet (DUV) Raman microspectroscopy. Journal of Raman Spectroscopy, 2017, 48, 867-871.	2.5	14
21	Effects of a nitrification inhibitor on nitrogen species in the soil and the yield and phosphorus uptake of maize. Science of the Total Environment, 2020, 715, 136895.	8.0	13
22	Methods for assessing laterally-resolved distribution, speciation and bioavailability of phosphorus in soils. Reviews in Environmental Science and Biotechnology, 2022, 21, 53-74.	8.1	13
23	Analysis of 5-Hydroxyisoflavones by Surface-Enhanced Raman Spectroscopy: Genistein and Methoxy Derivatives. Journal of Physical Chemistry B, 2011, 115, 13943-13954.	2.6	11
24	Combining diffusive gradients in thin films (DGT) and spectroscopic techniques for the determination of phosphorus species in soils. Analytica Chimica Acta, 2019, 1057, 80-87.	5.4	11
25	Comparative Analysis of Surface-Enhanced Raman Spectroscopy of Daidzein and Formononetin. Journal of Physical Chemistry B, 2010, 114, 7104-7111.	2.6	10
26	Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. Environmental Science: Nano, 2019, 6, 3027-3038.	4.3	10
27	Hard X-ray synchrotron biogeochemistry: piecing together the increasingly detailed puzzle. Environmental Chemistry, 2014, 11, 1.	1.5	4
28	Thermal Treatment of Chromium(III) Oxide with Carbonates Analyzed by Far-Infrared Spectroscopy. Applied Spectroscopy, 2015, 69, 1210-1214.	2.2	4
29	Mapping the Complex Journey of Swimming Pool Contaminants: A Multi-Method Systems Approach. Water (Switzerland), 2022, 14, 2062.	2.7	4
30	Surface-Enhanced Raman Spectroscopy Of Isoflavones With Silver-Doped Nano-Porous Inorganic Substrates. , 2010, , .		0