Occurrence, behavior and effects of nanoparticles in the environment

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#	Paper	IF	Citations
1787	Assessing the Risk of Engineered Nanomaterials in the Environment: Development and Application of the nanoFate Model.		
1786	.		
1785	Nanometrology. **2000**, 1-12		2
1784	An Assessment of the Fate of Metal Oxide Nanomaterials in Porous Media. *Water, Air, and Soil Pollution*, **2008**, 194, 227-241	2.6	19
1783	Ecotoxicity of engineered nanoparticles to aquatic invertebrates: a brief review and recommendations for future toxicity testing. **2008**, 17, 387-95		592
1782	Nanoparticles: structure, properties, preparation and behaviour in environmental media. **2008**, 17, 326-43		433
1781	Environmental behavior and ecotoxicity of engineered nanoparticles to algae, plants, and fungi. **2008**, 17, 372-86		1234
1780	Nanoparticle analysis and characterization methodologies in environmental risk assessment of engineered nanoparticles. **2008**, 17, 344-61		486
1779	Impact of gold nanoparticles combined to X-Ray irradiation on bacteria. **2008**, 41, 187-194		27
1778	Application of asymmetric flow field-flow fractionation (AsFlFFF) coupled to inductively coupled plasma mass spectrometry (ICPMS) to the quantitative characterization of natural colloids and synthetic nanoparticles. **2008**, 392, 1447-57		72
1777	Bottom-up risk regulation? How nanotechnology risk knowledge gaps challenge federal and state environmental agencies. **2008**, 42, 426-43		34
1776	Enhanced environmental mobility of carbon nanotubes in the presence of humic acid and their removal from aqueous solution. **2008**, 4, 2166-70		95
1775	Nanoparticles in the Atmosphere. **2008**, 4, 389-394		107
1774	Nanoparticles in the Soil Environment. **2008**, 4, 395-399		187
1773	Adsorption mechanisms of organic chemicals on carbon nanotubes. **2008**, 42, 9005-13		960
1772	Neutron activation of engineered nanoparticles as a tool for tracing their environmental fate and uptake in organisms. **2008**, 27, 1883-7		59
1771	Manufactured nanoparticles: an overview of their chemistry, interactions and potential environmental implications. *Science of the Total Environment*, **2008**, 400, 396-414	10.2	764

1770	Use of iron-based technologies in contaminated land and groundwater remediation: a review. *Science of the Total Environment*, **2008**, 400, 42-51	10.2	469
1769	Adsorption of phenolic compounds by carbon nanotubes: role of aromaticity and substitution of hydroxyl groups. **2008**, 42, 7254-9		477
1768	Bio-nanotechnology and photodynamic therapy--state of the art review. **2008**, 5, 19-28		128
1767	Tannic acid adsorption and its role for stabilizing carbon nanotube suspensions. **2008**, 42, 5917-23		256
1766	Exposure modeling of engineered nanoparticles in the environment. **2008**, 42, 4447-53		1442
1765	Transport of single-walled carbon nanotubes in porous media: filtration mechanisms and reversibility. **2008**, 42, 8317-23		199
1764	Synthetic TiO2 nanoparticle emission from exterior facades into the aquatic environment. *Environmental Pollution*, **2008**, 156, 233-9	9.3	627
1763	Root uptake and phytotoxicity of ZnO nanoparticles. **2008**, 42, 5580-5		815
1762	Removal of oxide nanoparticles in a model wastewater treatment plant: influence of agglomeration and surfactants on clearing efficiency. **2008**, 42, 5828-33		399
1761	Aqueous adsorption of aniline, phenol, and their substitutes by multi-walled carbon nanotubes. **2008**, 42, 7931-6		333
1760	Clay minerals affect the stability of surfactant-facilitated carbon nanotube suspensions. **2008**, 42, 6869-75		110
1759	Novel strategies for preparation and characterization of functional polymer-metal nanocomposites for electrochemical applications. **2008**, 80, 2425-2437		21
1758	Recent Developments in Nanotechnology and Risk Assessment Strategies for Addressing Public and Environmental Health Concerns. **2008**, 14, 568-592		40
1757	L Eotoxicologie aquatique´-´comparaison entre les micropolluants organiques et les m Eaux´: constats actuels et d Eis pour l Evenir. **2008**, 21, 173-197		1
1756	Nanoparticle interactions: improvement of experimental optical data analysis. **2008**,		
1755	. **2009**,		26
1754	MNM1D: A Numerical Code for Colloid Transport in Porous Media: Implementation and Validation. **2009**, 5, 517-525		23
1753	Influence of Sediment Grain Size on Elutriate Toxicity of Inorganic Nanomaterials. **2009**, 44, 201-210		1

1752	Particle-Lung Interactions. **2009**,		5
1751	Nanotechnology and in situ remediation: a review of the benefits and potential risks. **2009**, 117, 1813-31		509
1750	Engineered Nanomaterials as Emerging Contaminants in Water. **2009**, 558-590		2
1749	Nanoscale Carbon Materials for Contaminant Separation. **2009**, 269-311		1
1748	Aggregation and disaggregation of iron oxide nanoparticles: Influence of particle concentration, pH and natural organic matter. *Science of the Total Environment*, **2009**, 407, 2093-101	10.2	410
1747	Effect of sub-acute exposure to TiO2 nanoparticles on oxidative stress and histopathological changes in Juvenile Carp (Cyprinus carpio). **2009**, 21, 1459-66		194
1746	Analysis and Characterization of Manufactured Nanoparticles in Aquatic Environments. 211-266		46
1745	Ecotoxicology of Manufactured Nanoparticles. 267-305		6
1744	Electrophoretic methods for separation of nanoparticles. **2009**, 32, 1889-906		137
1743	Dietary exposure to titanium dioxide nanoparticles in rainbow trout, (Oncorhynchus mykiss): no effect on growth, but subtle biochemical disturbances in the brain. **2009**, 18, 939-51		171
1742	Transport and dynamics of toxic pollutants in the natural environment and their effect on human health: research gaps and challenge. **2009**, 31, 165-87		23
1741	Influence of Metal Nanoparticles on the Soil Microbial Community and Germination of Lettuce Seeds. *Water, Air, and Soil Pollution*, **2009**, 197, 143-148	2.6	310
1740	Insignificant acute toxicity of TiO2 nanoparticles to willow trees. **2009**, 9, 46-53		93
1739	Ecotoxicity and analysis of nanomaterials in the aquatic environment. **2009**, 393, 81-95		370
1738	Monitoring nanoparticles in the environment. **2009**, 393, 17-21		152
1737	Analysis, behavior and ecotoxicity of carbon-based nanomaterials in the aquatic environment. **2009**, 28, 820-832		124
1736	Nanoparticles: their potential toxicity, waste and environmental management. **2009**, 29, 2587-95		447
1735	Aqueous stability of oxidized carbon nanotubes and the precipitation by salts. **2009**, 165, 1239-42		52

1734	Aggregation and deposition behavior of boron nanoparticles in porous media. **2009**, 330, 90-6		58
1733	Macroporous anatase titania particle: Aerosol self-assembly fabrication with photocatalytic performance. **2009**, 152, 293-296		35
1732	Considerations for environmental fate and ecotoxicity testing to support environmental risk assessments for engineered nanoparticles. **2009**, 1216, 503-9		302
1731	Occurrence and characterization of carbon nanoparticles below the soot laden zone of a partially premixed flame. **2009**, 156, 2319-2327		6
1730	The effect of ionic strength and pH on the stability of tannic acid-facilitated carbon nanotube suspensions. **2009**, 47, 2875-2882		137
1729	An investigation of the performance of catalytic aerogel filters. **2009**, 86, 127-136		81
1728	Influence of nanotube preparation in aquatic bioassays. **2009**, 28, 1930-8		67
1727	Modeled environmental concentrations of engineered nanomaterials (TiO(2), ZnO, Ag, CNT, Fullerenes) for different regions. **2009**, 43, 9216-22		1901
1726	Single-walled carbon nanotubes exhibit limited transport in soil columns. **2009**, 43, 9161-6		187
1725	Novel method for the direct visualization of in vivo nanomaterials and chemical interactions in plants. **2009**, 43, 5290-4		198
1724	Nanotoxicity of Metal Oxide Nanoparticles in Vivo. 247-269		4
1723	Amine- and carboxyl- quantum dots affect membrane integrity of bacterium Cupriavidus metallidurans CH34. **2009**, 43, 5117-22		36
1722	Nanoparticles and higher plants. **2009**, 62, 161-165		344
1721	A simple recycling and reuse hydrothermal route to ZnO nanorod arrays, nanoribbon bundles, nanosheets, nanocubes and nanoparticles. **2009**, 2762-4		45
1720	C60 fullerene: a powerful antioxidant or a damaging agent? The importance of an in-depth material characterization prior to toxicity assays. *Environmental Pollution*, **2009**, 157, 1134-9	9.3	111
1719	Influence of titanium dioxide nanoparticles on speciation and bioavailability of arsenite. *Environmental Pollution*, **2009**, 157, 1165-70	9.3	107
1718	Testing the resistance of single- and multi-walled carbon nanotubes to chemothermal oxidation used to isolate soots from environmental samples. *Environmental Pollution*, **2009**, 157, 1065-71	9.3	41
1717	Comparison of manufactured and black carbon nanoparticle concentrations in aquatic sediments. *Environmental Pollution*, **2009**, 157, 1110-6	9.3	98

1716	Aqueous suspensions of carbon nanotubes: surface oxidation, colloidal stability and uranium sorption. *Environmental Pollution*, **2009**, 157, 1088-94	9.3	240
1715	Estimating the relevance of engineered carbonaceous nanoparticle facilitated transport of hydrophobic organic contaminants in porous media. *Environmental Pollution*, **2009**, 157, 1117-26	9.3	104
1714	Toxicity of nanoparticulate and bulk ZnO, Al2O3 and TiO2 to the nematode Caenorhabditis elegans. *Environmental Pollution*, **2009**, 157, 1171-7	9.3	410
1713	Stability of titania nanoparticles in soil suspensions and transport in saturated homogeneous soil columns. *Environmental Pollution*, **2009**, 157, 1101-9	9.3	285
1712	Adsorption of fulvic acid by carbon nanotubes from water. *Environmental Pollution*, **2009**, 157, 1095-100	9.3	218
1711	The behavior and effects of nanoparticles in the environment. *Environmental Pollution*, **2009**, 157, 1063-4	9.3	69
1710	Antibiotic removal from water: elimination of amoxicillin and ampicillin by microscale and nanoscale iron particles. *Environmental Pollution*, **2009**, 157, 1626-35	9.3	196
1709	Bacterial toxicity comparison between nano- and micro-scaled oxide particles. *Environmental Pollution*, **2009**, 157, 1619-25	9.3	623
1708	Single walled carbon nanotube reactivity and cytotoxicity following extended aqueous exposure. *Environmental Pollution*, **2009**, 157, 1140-51	9.3	49
1707	Effect of natural organic matter and green microalga on carboxyl-polyethylene glycol coated CdSe/ZnS quantum dots stability and transformations under freshwater conditions. *Environmental Pollution*, **2009**, 157, 3445-50	9.3	40
1706	A fluorescence quenching study of the interaction of Suwannee River fulvic acid with iron oxide nanoparticles. **2009**, 76, 1023-7		52
1705	Impact of natural organic matter and divalent cations on the stability of aqueous nanoparticles. **2009**, 43, 4249-57		448
1704	Preparation, characterization of NIPAM and NIPAM/BAM copolymer nanoparticles and their acute toxicity testing using an aquatic test battery. **2009**, 92, 146-54		50
1703	Evaluation of the toxic impact of silver nanoparticles on Japanese medaka (Oryzias latipes). **2009**, 94, 320-7		227
1702	Inhibitor of differentiation 1 (Id1) expression attenuates the degree of TiO2-induced cytotoxicity in H1299 non-small cell lung cancer cells. **2009**, 189, 191-9		27
1701	Colloidal particles for cellular uptake and delivery. **2009**, 19, 3108		117
1700	The known unknowns of nanomaterials: Describing and characterizing uncertainty within environmental, health and safety risks. **2009**, 3, 222-233		67
1699	Sorption of phenanthrene by humic acid-coated nanosized TiO2 and ZnO. **2009**, 43, 1845-51		111

1698	Fate of silica nanoparticles in simulated primary wastewater treatment. **2009**, 43, 8622-8	114
1697	Smarten. **2009**, 95-109	14
1696	Titanium nanomaterial removal and release from wastewater treatment plants. **2009**, 43, 6757-63	635
1695	Interactions of humic acid with nanosized inorganic oxides. **2009**, 25, 3571-6	316
1694	Antimicrobial activities of commercial nanoparticles against an environmental soil microbe, Pseudomonas putida KT2440. **2009**, 3, 9	209
1693	Nanomaterials: Risks and Benefits. **2009**,	18
1692	Deposition of TiO2 nanoparticles onto silica measured using a quartz crystal microbalance with dissipation monitoring. **2009**, 25, 6062-9	94
1691	The behavior of silver nanotextiles during washing. **2009**, 43, 8113-8	509
1690	Relating colloidal stability of fullerene (C60) nanoparticles to nanoparticle charge and electrokinetic properties. **2009**, 43, 7270-6	158
1689	Setting the limits for engineered nanoparticles in European surface waters - are current approaches appropriate?. **2009**, 11, 1774-81	61
1688	Assay-dependent phytotoxicity of nanoparticles to plants. **2009**, 43, 9473-9	698
1687	Natural nanoclays: applications and future trends a Chilean perspective. **2009**, 44, 161-176	110
1686	An examination of existing data for the industrial manufacture and use of nanocomponents and their role in the life cycle impact of nanoproducts. **2009**, 43, 1256-63	122
1685	Nanotechnologies for Water Environment Applications. **2009**,	25
1684	Advantages and risk related with carbon nanomaterials (CNMs) application for water remediation. Mini review. **2009**, 64,	
1683	Algatrium and antioxidant response - Scientific substantiation of a health claim related to Algatrium and antioxidant response Article 13(5) of Regulation (EC) No 1924/2006. **2009**, 7, 942	
1682	The Potential Risks Arising from Nanoscience and Nanotechnologies on Food and Feed Safety. **2009**, 7, 958	24
1681	Extending the diffuse layer model of surface acidity behaviour: III. Estimating bound site activity coefficients. **2009**, 21, 233-244	1

1680	Potential Removal and Release of Nanomaterials from Wastewater Treatment Plants. **2010**, 2010, 899-905		
1679	Nanotechnology and nanomedicine: going small means aiming big. **2010**, 16, 1882-92		95
1678	New methods for nanotoxicology: synchrotron radiation-based techniques. **2010**, 398, 667-76		28
1677	Toxicity assessment of nanomaterials: methods and challenges. **2010**, 398, 589-605		350
1676	Effects of titania nanoparticles on phosphorus fractions and its release in resuspended sediments under UV irradiation. **2010**, 174, 477-83		13
1675	Just scratching the surface? New techniques show how surface functionality of nanoparticles influences their environmental fate. **2010**, 5, 248-250		16
1674	Organic Pollutants in Coastal Waters, Sediments, and Biota: A Relevant Driver for Ecosystems During the Anthropocene?. **2010**, 33, 1-14		73
1673	TiO 2 nanoparticles Relationship between dispersion preparation method and ecotoxicity in the algal growth test. **2010**, 22, 517-528		18
1672	Sorption of phenanthrene by nanosized alumina coated with sequentially extracted humic acids. **2010**, 17, 410-9		34
1671	Adsorption kinetics of 17 ethinyl estradiol and bisphenol A on carbon nanomaterials. II. Concentration-dependence. **2010**, 10, 845-854		22
1670	The effects of silver nanoparticles on fathead minnow (Pimephales promelas) embryos. **2010**, 19, 185-95		179
1669	Effects of silica nanoparticles on growth and photosynthetic pigment contents of Scenedesmus obliquus. **2010**, 22, 155-60		118
1668	Interaction mechanisms of organic contaminants with burned straw ash charcoal. **2010**, 22, 1586-94		28
1667	The effect of humic acids on the cytotoxicity of silver nanoparticles to a natural aquatic bacterial assemblage. *Science of the Total Environment*, **2010**, 408, 5817-23	10.2	65
1666	Ecotoxicity of nanoparticles of CuO and ZnO in natural water. *Environmental Pollution*, **2010**, 158, 41-7	9.3	343
1665	Different stabilities of multiwalled carbon nanotubes in fresh surface water samples. *Environmental Pollution*, **2010**, 158, 1270-4	9.3	68
1664	A review of the characteristics of nanoparticles in the urban atmosphere and the prospects for developing regulatory controls. **2010**, 44, 5035-5052		235
1663	Experimental determination of ampicillin adsorption to nanometer-size Al2O3 in water. **2010**, 80, 1268-73		20

1662	The effects of engineered nanoparticles on survival, reproduction, and behaviour of freshwater snail, Physa acuta (Draparnaud, 1805). **2010**, 81, 1196-203	38
1661	Possibilities and limitations of modeling environmental exposure to engineered nanomaterials by probabilistic material flow analysis. **2010**, 29, 1036-48	156
1660	Acute toxicity of a mixture of copper and single-walled carbon nanotubes to Daphnia magna. **2010**, 29, 122-6	57
1659	Testing metal-oxide nanomaterials for human safety. **2010**, 22, 2601-27	301
1658	Nanomaterials in the Environment: the Good, the Bad, and the Ugly. **2010**, 255-282	2
1657	Influence of the zeta potential on the sorption and toxicity of iron oxide nanoparticles on S. cerevisiae and E. coli. **2010**, 347, 43-8	131
1656	Partitioning of hydrophobic CdSe quantum dots into aqueous dispersions of humic substances: influence of capping-group functionality on the phase-transfer mechanism. **2010**, 348, 119-28	25
1655	Effects of natural organic matter on aggregation kinetics of boron nanoparticles in monovalent and divalent electrolytes. **2010**, 348, 101-7	66
1654	Surface-modified nanoscale carbon black used as sorbents for Cu(II) and Cd(II). **2010**, 174, 34-9	50
1653	Adsorption of copper(II) on multiwalled carbon nanotubes in the absence and presence of humic or fulvic acids. **2010**, 178, 333-40	252
1652	Synthesis of nanostructured manganese oxides from a dipolar binary liquid (water/benzene) system and hydrogen storage ability research. **2010**, 35, 9021-9026	10
1651	Nuclear microprobe investigation of the penetration of ultrafine zinc oxide into intact and tape-stripped human skin. **2010**, 268, 2160-2163	12
1650	The importance of life cycle concepts for the development of safe nanoproducts. **2010**, 269, 160-9	191
1649	Potential hazard of nanoparticles: from properties to biological and environmental effects. **2010**, 269, 89-91	54
1648	Silica□in nanotubes prepared from rice husk ash by sol□gel method: Characterization and its photocatalytic activity. **2010**, 257, 811-816	53
1647	Probabilistic material flow modeling for assessing the environmental exposure to compounds: Methodology and an application to engineered nano-TiO2 particles. **2010**, 25, 320-332	207
1646	Current studies into the genotoxic effects of nanomaterials. **2010**, 2010,	66
1645	The role of atmospheric transformations in determining environmental impacts of carbonaceous nanoparticles. **2010**, 39, 1883-95	36

1644	A Review of Selected Engineered Nanoparticles in the Atmosphere: Sources, Transformations, and Techniques for Sampling and Analysis. **2010**, 16, 488-507	25
1643	Theoretical Investigation of Hydrogen Adsorption into Carbon Nanotube and Si/Ge Surface in Fuel Cell: Decrease of Environment Pollutants. **2010**, 1, M61-M66	1
1642	Environmental and Colloidal Behavior of Engineered Nanoparticles. **2010**, 246-248	2
1641	Nanoparticles in the Water Cycle. **2010**,	17
1640	Terrestrial Nanoparticles and Their Controls on Soil-/Geo-Processes and Reactions. **2010**, 107, 33-91	44
1639	Approaches to Mesoscale Modeling of Nanoparticle□Cell Membrane Interactions. **2010**,	1
1638	Thermodynamic and Electronic Investigation About Remove of MTBE from Environment by Single-Walled Carbon Nanotube (SWNT). **2010**, 114, 7-16	3
1637	Environmental Research at the Advanced Photon Source. **2010**, 23, 20-27	1
1636	Image Analysis and Computer Simulation of Nanoparticle Clustering in Combustion Systems. **2010**, 44, 83-95	6
1635	Fate and transport of engineered nanomaterials in the environment. **2010**, 39, 1896-908	272
1634	Environmental, health, and safety effects of engineered nanomaterials: challenges and research needs. **2010**,	1
1633	Nanomaterials as Emerging Environmental Threats. **2010**, 4, 151-160	
1632	Adsorption and conformation of a cationic surfactant on single-walled carbon nanotubes and their influence on naphthalene sorption. **2010**, 44, 681-7	63
1631	Aggregation and deposition of engineered nanomaterials in aquatic environments: role of physicochemical interactions. **2010**, 44, 6532-49	880
1630	Manufactured Nanoparticles and their Sorption of Organic Chemicals. **2010**, 137-181	30
1629	No evidence for cerium dioxide nanoparticle translocation in maize plants. **2010**, 44, 8718-23	219
1628	An ecotoxicological characterization of nanocrystalline cellulose (NCC). **2010**, 4, 255-70	202
1627	Synchrotron speciation of silver and zinc oxide nanoparticles aged in a kaolin suspension. **2010**, 44, 1307-12	94

1626	Influence of Size, Shape, and Surface Coating on the Stability of Aqueous Suspensions of CdSe Nanoparticles. **2010**, 22, 5251-5257	66
1625	Measurement of retention efficiency of filters against nanoparticles in liquids using an aerosolization technique. **2010**, 44, 774-9	18
1624	Chemical degradation of drinking water disinfection byproducts by millimeter-sized particles of iron-silicon and magnesium-aluminum alloys. **2010**, 132, 2500-1	30
1623	Nano-titanium dioxide (TiO2)-induced changes affecting Cu2+-mediated alterations in bacterium Bacillus subtilis and □amylase. **2010**, 92, 1851-1856	
1622	Stability of nanoparticles in water. **2010**, 5, 985-98	59
1621	Trace elements in organic- and iron-rich surficial fluids of the boreal zone: Assessing colloidal forms via dialysis and ultrafiltration. **2010**, 74, 449-468	106
1620	Biosorption of nanoparticles to heterotrophic wastewater biomass. **2010**, 44, 4105-14	222
1619	Nanoparticles for Remediation: Solving Big Problems with Little Particles. **2010**, 6, 395-400	144
1618	Effects of engineered cerium oxide nanoparticles on bacterial growth and viability. **2010**, 76, 7981-9	269
1617	Nanotechnology risk communication past and prologue. **2010**, 30, 1645-62	20
1616	Nanoparticles: Interaction with Microorganisms. **2010**, 165-182	3
1615	Manufactured nanoparticles in the environment. **2010**, 7, 1	15
1614	Adsorption of organic compounds by carbon nanomaterials in aqueous phase: Polanyi theory and its application. **2010**, 110, 5989-6008	642
1613	Heterogeneities in fullerene nanoparticle aggregates affecting reactivity, bioactivity, and transport. **2010**, 4, 5011-8	64
1612	Concurrent aggregation and deposition of TiO2 nanoparticles in a sandy porous media. **2010**, 44, 4897-902	179
1611	Free cadmium ions released from CdTe-based nanoparticles and their cytotoxicity on Phaeodactylum tricornutum. **2010**, 2, 469-73	39
1610	The need for standardized methods and environmental monitoring programs for anthropogenic nanoparticles. **2011**, 3, 1461	20
1609	Spatial distribution, electron microscopy analysis of titanium and its correlation to heavy metals: occurrence and sources of titanium nanomaterials in surface sediments from Xiamen Bay, China. **2011**, 13, 1046-52	41

1608	Effects of dispersed aggregates of carbon and titanium dioxide engineered nanoparticles on rainbow trout hepatocytes. **2011**, 74, 466-77	20
1607	Bactericidal activity of zinc sulphate bio-nanoparticles against enterobacteriaceae pathogens. **2011** ,	1
1606	Weight of evidence approach for the relative hazard ranking of nanomaterials. **2011**, 5, 445-58	35
1605	Cytotoxicity of Al2O3 nanoparticles at low exposure levels to a freshwater bacterial isolate. **2011**, 24, 1899-904	61
1604	TiO2 and ZnO nanoparticles negatively affect wheat growth and soil enzyme activities in agricultural soil. **2011**, 13, 822-8	390
1603	120 years of nanosilver history: implications for policy makers. **2011**, 45, 1177-83	589
1602	Effects of ZnO nanoparticles on wastewater biological nitrogen and phosphorus removal. **2011**, 45, 2826-32	312
1601	Voltammetry of Sulfide Nanoparticles and the FeS(aq) Problem. **2011**, 265-282	7
1600	The antibacterial effects of engineered nanomaterials: implications for wastewater treatment plants. **2011**, 13, 1164-83	128
1599	Initial Steps of Copper Detoxification: Outside and Inside of the Plant Cell. **2011**, 143-167	4
1598	Natural Colloids and Manufactured Nanoparticles in Aquatic and Terrestrial Systems. **2011**, 89-129	17
1597	Dietary toxicity of single-walled carbon nanotubes and fullerenes (C60) in rainbow trout (Oncorhynchus mykiss). **2011**, 5, 98-108	79
1596	Are carbon nanotube effects on green algae caused by shading and agglomeration?. **2011**, 45, 6136-44	222
1595	Adsorption, desorption, and removal of polymeric nanomedicine on and from cellulose surfaces: effect of size. **2011**, 27, 12550-9	31
1594	. **2011**,	6
1593	Origin, separation and identification of environmental nanoparticles: a review. **2011**, 13, 1156-63	45
1592	Occurrence and removal of titanium at full scale wastewater treatment plants: implications for TiO2 nanomaterials. **2011**, 13, 1195-203	297
1591	Detoxification of Heavy Metals. **2011**,	8

1590	Size effects on adsorption of hematite nanoparticles on E. coli cells. **2011**, 45, 2172-8	78
1589	Quantum dot-based headspace single-drop microextraction technique for optical sensing of volatile species. **2011**, 83, 2388-93	41
1588	The release of engineered nanomaterials to the environment. **2011**, 13, 1145-55	577
1587	Effects of Zn and ZnO nanoparticles and Zn2+ on soil enzyme activity and bioaccumulation of Zn in Cucumis sativus. **2011**, 27, 49-55	81
1586	The devil is in the details (or the surface): impact of surface structure and surface energetics on understanding the behavior of nanomaterials in the environment. **2011**, 13, 1135-44	96
1585	Effects of nanosized titanium dioxide on innate immune system of fathead minnow (Pimephales promelas Rafinesque, 1820). **2011**, 74, 675-83	95
1584	Assessment of the effect of nanomaterials on sediment-dwelling invertebrate Chironomus tentans larvae. **2011**, 74, 416-23	28
1583	The effect of multi-walled carbon nanotubes on soil microbial activity. **2011**, 74, 569-75	138
1582	Ecotoxicity study of titania (TiO₂) NPs on two microalgae species: Scenedesmus sp. and Chlorella sp. **2011**, 74, 1180-7	119
1581	Nanowastes and the environment: Potential new waste management paradigm. **2011**, 37, 112-28	123
1580	Toxicity of zinc oxide nanoparticles in the earthworm, Eisenia fetida and subcellular fractionation of Zn. **2011**, 37, 1098-104	95
1579	How to assess exposure of aquatic organisms to manufactured nanoparticles?. **2011**, 37, 1068-77	106
1578	Community effects of carbon nanotubes in aquatic sediments. **2011**, 37, 1126-30	31
1577	Environmental and health effects of nanomaterials in nanotextiles and façade coatings. **2011**, 37, 1131-42	184
1576	C60-DOM interactions and effects on C60 apparent solubility: a molecular mechanics and density functional theory study. **2011**, 37, 1078-82	33
1575	Uptake and distribution of ceria nanoparticles in cucumber plants. **2011**, 3, 816-22	196
1574	Influence of Ca(2+) and Suwannee River Humic Acid on aggregation of silicon nanoparticles in aqueous media. **2011**, 45, 105-12	76
1573	Aggregation and transport of nano-TiO2 in saturated porous media: effects of pH, surfactants and flow velocity. **2011**, 45, 839-51	171

1572	Transport and deposition of CeO2 nanoparticles in water-saturated porous media. **2011**, 45, 4409-18	80
1571	Impact of exopolysaccharides on the stability of silver nanoparticles in water. **2011**, 45, 5184-90	63
1570	Technical challenges in tackling regulatory concerns for urban atmospheric nanoparticles. **2011**, 9, 566-571	43
1569	Bacterial tactic response to silver nanoparticles. **2011**, 3, 526-34	24
1568	Transport and retention of microparticles in packed sand columns at low and intermediate ionic strengths: experiments and mathematical modeling. **2011**, 63, 847-859	25
1567	Graphene phytotoxicity in the seedling stage of cabbage, tomato, red spinach, and lettuce. **2011**,	5
1566	Five Myths about Nanotechnology in the Current Public Policy Debate. 11-60	
1565	Magnetic structure of Fe-Fe oxide nanoparticles made by electrodeposition. **2011**, 2,	
1564	Nanotechnology and in situ remediation: a review of the benefits and potential risks. **2011**, 16, 165-78	36
1563	Environmental implications of nanotechnology--an update. **2011**, 8, 470-9	43
1562	Development of prognostic occupational air standards for nanoparticles. **2011**, 304, 012052	
1561	Proteomic study of human bronchial epithelial cells exposed to SiC nanoparticles. **2011**, 304, 012088	
1560	Electrochemical Impedance Spectra of Particulate Matter and Smoke. **2011**, 23, 012029	2
1559	Ion Exchange-Assisted Synthesis of Polymer Stabilized Metal Nanoparticles. **2011**, 1-44	7
1558	Effects of manufactured nanomaterials on fishes: a target organ and body systems physiology approach. **2011**, 79, 821-53	78
1557	High efficiency removal of dissolved As(III) using iron nanoparticle-embedded macroporous polymer composites. **2011**, 192, 1002-8	80
1556	Effects of engineered nano-titanium dioxide on pore surface properties and phosphorus adsorption of sediment: its environmental implications. **2011**, 192, 1364-9	23
1555	Low toxicity of HfO2, SiO2, Al2O3 and CeO2 nanoparticles to the yeast, Saccharomyces cerevisiae. **2011**, 192, 1572-9	76

1554	Effects of nano-scale TiO2, ZnO and their bulk counterparts on zebrafish: acute toxicity, oxidative stress and oxidative damage. *Science of the Total Environment*, **2011**, 409, 1444-52	10.2	397
1553	Food packaging based on polymer nanomaterials. **2011**, 36, 1766-1782		640
1552	Role of quantum dots nanoparticles in the chemical treatment of colored wastewater: catalysts or additional pollutants. **2011**, 23, 1479-85		10
1551	Quantifying the adsorption and uptake of CuO nanoparticles by wheat root based on chemical extractions. **2011**, 23, 1852-7		64
1550	Changes in biological characteristics of freshwater heterotrophic flagellates and cladocerans under the effect of metal oxide nano- and microparticles. **2011**, 4, 475-483		5
1549	Studies on aggregation behaviour of silver nanoparticles in aqueous matrices: Effect of surface functionalization and matrix composition. **2011**, 390, 216-224		100
1548	Effects of C60 nanoparticle exposure on earthworms (Lumbricus rubellus) and implications for population dynamics. *Environmental Pollution*, **2011**, 159, 198-203	9.3	65
1547	Effects of compositional heterogeneity and nanoporosity of raw and treated biomass-generated soot on adsorption and absorption of organic contaminants. *Environmental Pollution*, **2011**, 159, 550-6	9.3	24
1546	Nano-TiO2 enhances the toxicity of copper in natural water to Daphnia magna. *Environmental Pollution*, **2011**, 159, 729-34	9.3	137
1545	Impact of carbon nanomaterials on the behaviour of 14C-phenanthrene and 14C-benzo-[a] pyrene in soil. *Environmental Pollution*, **2011**, 159, 706-15	9.3	57
1544	To duckweeds (Landoltia punctata), nanoparticulate copper oxide is more inhibitory than the soluble copper in the bulk solution. *Environmental Pollution*, **2011**, 159, 1277-82	9.3	158
1543	Transport of copper as affected by titania nanoparticles in soil columns. *Environmental Pollution*, **2011**, 159, 1248-56	9.3	48
1542	Combined effects of titanium dioxide and humic acid on the bioaccumulation of cadmium in Zebrafish. *Environmental Pollution*, **2011**, 159, 1151-8	9.3	43
1541	Influence of the initial state of carbon nanotubes on their colloidal stability under natural conditions. *Environmental Pollution*, **2011**, 159, 1641-8	9.3	47
1540	Influence of ionic strength and pH on the limitation of latex microsphere deposition sites on iron-oxide coated sand by humic acid. *Environmental Pollution*, **2011**, 159, 1896-904	9.3	26
1539	Environmental impact of sunscreen nanomaterials: ecotoxicity and genotoxicity of altered TiO2 nanocomposites on Vicia faba. *Environmental Pollution*, **2011**, 159, 2515-22	9.3	107
1538	Testing the resistance of fullerenes to chemothermal oxidation used to isolate soots from environmental samples. *Environmental Pollution*, **2011**, 159, 3793-6	9.3	5
1537	Engineered nanomaterials in rivers--exposure scenarios for Switzerland at high spatial and temporal resolution. *Environmental Pollution*, **2011**, 159, 3439-45	9.3	136

1536	Effect of surfactant-coated iron oxide nanoparticles on the effluent water quality from a simulated sequencing batch reactor treating domestic wastewater. *Environmental Pollution*, **2011**, 159, 3411-5	9.3	7
1535	The induction of epigenetic regulation of PROS1 gene in lung fibroblasts by gold nanoparticles and implications for potential lung injury. **2011**, 32, 7609-15		72
1534	A biotechnological perspective on the application of iron oxide magnetic colloids modified with polysaccharides. **2011**, 29, 142-55		260
1533	Interaction of engineered nanoparticles with various components of the environment and possible strategies for their risk assessment. **2011**, 82, 308-17		182
1532	Behavioural and biochemical responses of two marine invertebrates Scrobicularia plana and Hediste diversicolor to copper oxide nanoparticles. **2011**, 84, 166-74		203
1531	Inorganic nanoparticles enhance the production of reactive oxygen species (ROS) during the autoxidation of L-3,4-dihydroxyphenylalanine (L-dopa). **2011**, 85, 19-25		24
1530	Influence of soil ageing on bioavailability and ecotoxicity of lead carried by process waste metallic ultrafine particles. **2011**, 85, 1555-62		67
1529	Alumina nanoparticles enhance growth of Lemna minor. **2011**, 105, 328-36		85
1528	Titanium in UK rural, agricultural and urban/industrial rivers: geogenic and anthropogenic colloidal/sub-colloidal sources and the significance of within-river retention. *Science of the Total Environment*, **2011**, 409, 1843-53	10.2	63
1527	Methods of detection and identification of manufactured nanoparticles. **2011**, 56, 961-986		17
1526	A review of environmental effects and management of nanomaterials. **2011**, 93, 1227-1250		17
1525	Influence of single-walled carbon nanotubes on microbial availability of phenanthrene in sediment. **2011**, 20, 1277-85		42
1524	Growth kinetics and long-term stability of CdS nanoparticles in aqueous solution under ambient conditions. **2011**, 13, 393-404		37
1523	Agglomeration, sedimentation, and cellular toxicity of alumina nanoparticles in cell culture medium. **2011**, 13, 2543-2551		24
1522	Studies on toxicity of aluminum oxide (Al2O3) nanoparticles to microalgae species: Scenedesmus sp. and Chlorella sp.. **2011**, 13, 3287-3299		178
1521	Influence of pH on the transport of nanoscale zinc oxide in saturated porous media. **2011**, 13, 4035-4047		73
1520	Aggregation kinetics of CeO2 nanoparticles in KCl and CaCl2 solutions: measurements and modeling. **2011**, 13, 6483-6491		55
1519	Acaricidal, pediculocidal and larvicidal activity of synthesized ZnO nanoparticles using wet chemical route against blood feeding parasites. **2011**, 109, 461-72		89

1518	Hazardous phytotoxic nature of cobalt and zinc oxide nanoparticles assessed using Allium cepa. **2011**, 186, 952-5	128
1517	Fabrication, characterization, and evaluation of the cytotoxicity of platinum□rhodium nanocomposite materials for use in ammonia treatment. **2011**, 209, 29-34	6
1516	Growth inhibition of aquatic plant caused by silver and titanium oxide nanoparticles. **2011**, 3, 1-6	62
1515	Bacterial uptake of silver nanoparticles in the presence of humic acid and AgNO3. **2011**, 28, 267-271	23
1514	Green synthesis of gold nanostructures using pear extract as effective reducing and coordinating agent. **2011**, 28, 2329-2335	14
1513	(Bio)nanotechnologies to enhance environmental quality and energy production. **2011**, 86, 1354-1363	18
1512	Environmental Considerations of and Societal Reactions to Nanotechnology in the Food Sector. **2011**, 209-223	1
1511	Nanopartikel in biologischen Systemen. **2011**, 123, 1276-1293	29
1510	Nanoparticles in biological systems. **2011**, 50, 1242-58	417
1509	Characterization of silver nanoparticles using flow-field flow fractionation interfaced to inductively coupled plasma mass spectrometry. **2011**, 1218, 4219-25	146
1508	Interactions and stability of silver nanoparticles in the aqueous phase: Influence of natural organic matter (NOM) and ionic strength. **2011**, 1218, 4206-12	168
1507	Graphene phytotoxicity in the seedling stage of cabbage, tomato, red spinach, and lettuce. **2011**, 49, 3907-3919	285
1506	Studies on interaction of colloidal silver nanoparticles (SNPs) with five different bacterial species. **2011**, 87, 129-38	68
1505	Hyphenated analytical techniques for multidimensional characterisation of submicron particles: a review. **2011**, 692, 26-41	72
1504	Acute toxicity of cerium oxide, titanium oxide and iron oxide nanoparticles using standardized tests. **2011**, 269, 136-141	157
1503	Use of CeO2, TiO2 and Fe3O4 nanoparticles for the removal of lead from water: Toxicity of nanoparticles and derived compounds. **2011**, 277, 213-220	102
1502	Carbonaceous nanomaterials for the enhancement of TiO2 photocatalysis. **2011**, 49, 741-772	967
1501	Effects of diamond nanoparticle exposure on the internal structure and reproduction of Daphnia magna. **2011**, 186, 265-71	46

1500	Probing metabolic stability of CdSe nanoparticles: alkaline extraction of free cadmium from liver and kidney samples of rats exposed to CdSe nanoparticles. **2011**, 192, 192-9	38
1499	Kinetics and equilibrium adsorption of nano-TiO2 particles on synthetic biofilm. **2011**, 605, 1177-1184	23
1498	Ecotoxicity of, and remediation with, engineered inorganic nanoparticles in the environment. **2011**, 30, 507-516	104
1497	Analysis and assessment of the occurrence, the fate and the behavior of nanomaterials in the environment. **2011**, 30, 517-527	183
1496	Analytical chemistry of metallic nanoparticles in natural environments. **2011**, 30, 528-540	137
1495	Interaction Influence of Cd(II) and Nano-TiO2 on Aggregation and Adsorption Kinetics toward Marine Algae. **2011**, 3, 229-237	6
1494	Nanotoxicity: Dimensional and Morphological Concerns. **2011**, 2011, 1-15	44
1493	Stability studies of CdSe nanocrystals in an aqueous environment. **2011**, 22, 275706	14
1492	Simulated environmental risk estimation of engineered nanomaterials: a case of cosmetics in Johannesburg City. **2011**, 30, 1181-95	63
1491	On-Line Characterization of Morphology and Water Adsorption on Fumed Silica Nanoparticles. **2011**, 45, 1441-1447	21
1490	An Experimental Investigation on Use of Nanoparticles as Fluid Loss Additives in a Surfactant - Polymer Based Drilling Fluids. **2011**,	51
1489	Synthesis, Reactivity, and Cytotoxicity Effect of Pt-Pd-Rh Nanocomposite Cordierite Catalyst during Oxidation of Ammonia Processes. **2011**, 15, 37-41	11
1488	Potential for inhalation exposure to engineered nanoparticles from nanotechnology-based cosmetic powders. **2012**, 120, 885-92	47
1487	Cytotoxicity and Immunotoxicity Assessment of NiO Nanoparticles Using the Chlamydomonas reinhardtii. **2012**, 198-199, 52-55	
1486	Nanoparticles in European Cities and Associated Health Impacts. **2012**, 339-365	6
1485	Impact of Al2O3 nanopowders characterised by various physicochemical properties on growth of green alga Scenedesmus quadricauda. **2012**, 111, 142-148	13
1484	Toxicity of citrate-capped silver nanoparticles in common carp (Cyprinus carpio). **2012**, 2012, 262670	35
1483	Water and Wastewater Treatment using Nano-technology. **2012**, 315-318	4

1482	Evaluation of the Disinfectant Performance of Silver Nanoparticles in Different Water Chemistry Conditions. **2012**, 138, 58-66	36
1481	Enhanced Oxidative Stress and Physiological Damage inDaphnia magnaby Copper in the Presence of Nano-TiO2. **2012**, 2012, 1-7	29
1480	Nanoparticles in the environment: stability and toxicity. **2012**, 27, 175-9	13
1479	Reviews of Environmental Contamination and Toxicology. **2012**,	3
1478	Effects of aluminum oxide nanoparticles on the growth, development, and microRNA expression of tobacco (Nicotiana tabacum). **2012**, 7, e34783	172
1477	WITHDRAWN: Biosorption of silver nanoparticles (Ag NPs) on Bacillus pumilus. **2012**,	
1476	Particles, air quality, policy and health. **2012**, 41, 6606-30	454
1475	The dissolution rates of SiO2 nanoparticles as a function of particle size. **2012**, 46, 4909-15	68
1474	Extraction and characterization of natural soil nanoparticles from Chinese soils. **2012**, 63, 754-761	47
1473	Chapter 12:Modeling the Environmental Release and Exposure of Engineered Nanomaterials. **2012**, 284-313	2
1472	Attachment efficiency of nanoparticle aggregation in aqueous dispersions: modeling and experimental validation. **2012**, 46, 7054-62	98
1471	Toxicity, Uptake, and Translocation of Engineered Nanomaterials in Vascular plants. **2012**, 46, 9224-39	377
1470	Industrial production quantities and uses of ten engineered nanomaterials in Europe and the world. **2012**, 14, 1	877
1469	The effect of cations on the aggregation of commercial ZnO nanoparticle suspension. **2012**, 14, 1	34
1468	Modeling temperature and reaction time impacts on hematite nanoparticle size during forced hydrolysis of ferric chloride. **2012**, 210, 357-362	6
1467	The influence of capsular extracellular polymeric substances on the interaction between TiO nanoparticles and planktonic bacteria. **2012**, 46, 4687-96	65
1466	Green Synthesis of Gold Nanoparticles from Syzygium aromaticum Extract and Its Use in Enhancing the Response of a Colorimetric Urea Biosensor. **2012**, 2, 251-258	13
1465	Oxidative stress in juvenile common carp (Cyprinus carpio) exposed to TiO2 nanoparticles. **2012**, 8, 357-366	26

1464	Biochemical response of the African catfish, Clarias gariepinus (Burchell, 1822) to sublethal concentrations of mercury chloride with supplementation of selenium and vitamin E. **2012**, 4, 218-234		7
1463	Interaction of the fluoroquinolone antibiotic, ofloxacin, with titanium oxide nanoparticles in water: adsorption and breakdown. *Science of the Total Environment*, **2012**, 441, 1-9	10.2	48
1462	Adsorption of Natural Organic Matter Surrogates from Aqueous Solution by Multiwalled Carbon Nanotubes. **2012**, 116, 25783-25789		17
1461	Biotoxicity Effects of NiO-Nanoparticles on Chlorella sp.. **2012**,		1
1460	Quantifying the influence of EDTA on polymer nanoparticle deposition and retention in an iron-oxide-coated sand column. **2012**, 14, 2392-8		6
1459	Effect of Silver Nanoparticles on Growth of Eukaryotic Green Algae. **2012**, 4, 158-165		63
1458	Bovine serum albumin mediated decrease in silver nanoparticle phytotoxicity: root elongation and seed germination assay. **2012**, 94, 91-98		20
1457	The effect of inorganic ions on the aggregation kinetics of lab-made TiO2 nanoparticles in water. *Science of the Total Environment*, **2012**, 435-436, 446-452	10.2	53
1456	Screening of single-walled carbon nanotubes by optical fiber sensing. **2012**, 89, 105-8		7
1455	Transport of two metal oxide nanoparticles in saturated granular porous media: role of water chemistry and particle coating. **2012**, 46, 1273-85		89
1454	Alumina nanoparticles-induced effects on wastewater nitrogen and phosphorus removal after short-term and long-term exposure. **2012**, 46, 4379-86		78
1453	Analysis of gold nanoparticle mixtures: a comparison of hydrodynamic chromatography (HDC) and asymmetrical flow field-flow fractionation (AF4) coupled to ICP-MS. **2012**, 27, 1532		102
1452	Nanoparticles and their influence on radionuclide mobility in deep geological formations. **2012**, 27, 390-403		55
1451	Immunotoxicology of non-functionalized engineered nanoparticles in aquatic organisms with special emphasis on fish--review of current knowledge, gap identification, and call for further research. **2012**, 118-119, 141-151		99
1450	Effect of natural organic matter (NOM) on Cu(II) adsorption by multi-walled carbon nanotubes: Relationship with NOM properties. **2012**, 200-202, 627-636		61
1449	Interactions of clay minerals and a layered double hydroxide with water stable, nano scale fullerene aggregates (nC60). **2012**, 55, 36-43		16
1448	Engineered nanoparticles in the soil and their potential implications to microbial activity. **2012**, 173-174, 19-27		195
1447	Quantum dot nanoparticles affect the reproductive system of Caenorhabditis elegans. **2012**, 31, 2366-74		38

1446	Nanomaterials: Exposure, Effects and Toxicity Assessment. **2012**, 82, 3-11		26
1445	Engineered nanoparticles and their identification among natural nanoparticles. **2012**, 5, 107-32		48
1444	Defense mechanisms of Pseudomonas aeruginosa PAO1 against quantum dots and their released heavy metals. **2012**, 6, 6091-8		75
1443	Modeling colloid deposition on a protein layer adsorbed to iron-oxide-coated sand. **2012**, 142-143, 50-62		7
1442	Mechanistic insights into nanotoxicity determined by synchrotron radiation-based Fourier-transform infrared imaging and multivariate analysis. **2012**, 50, 56-65		20
1441	Buckminsterfullerene (C60) nanoparticle fouling of microfiltration membranes operated in a cross-flow configuration. **2012**, 100, 30-43		4
1440	Nanoparticle-specific changes in Arabidopsis thaliana gene expression after exposure to ZnO, TiO2, and fullerene soot. **2012**, 241-242, 55-62		160
1439	Enhanced resistance to nanoparticle toxicity is conferred by overproduction of extracellular polymeric substances. **2012**, 241-242, 363-70		128
1438	Evaluating the toxicity of selected types of nanochemicals. **2012**, 215, 39-121		47
1437	Nanoadsorbents for Remediation of Aquatic Environment: Local and Practical Solutions for Global Water Pollution Problems. **2012**, 42, 1233-1295		99
1436	A temporal study on fate of Al2O3 nanoparticles in a fresh water microcosm at environmentally relevant low concentrations. **2012**, 84, 70-7		16
1435	Introduction to the Analysis and Risk of Nanomaterials in Environmental and Food Samples. *Comprehensive Analytical Chemistry*, **2012**, 1-32	1.9	20
1434	Engineered Nanoparticles in Textiles and Textile Wastewaters. *Comprehensive Analytical Chemistry*, **2012**, 59, 235-264	1.9	6
1433	Hemocyte responses of Dreissena polymorpha following a short-term in vivo exposure to titanium dioxide nanoparticles: preliminary investigations. *Science of the Total Environment*, **2012**, 438, 490-7	10.2	33
1432	International Journal of Energy and Environmental Engineering. **2012**, 3, 32		69
1431	Immobilisation of cobaltferritin onto gold electrode based on self-assembled monolayers. **2012**, 6, 102-9		13
1430	Effects of silver nanoparticles in diatom Thalassiosira pseudonana and cyanobacterium Synechococcus sp. **2012**, 46, 11336-44		70
1429	Speciation analysis of aqueous nanoparticulate diclofenac complexes by solid-phase microextraction. **2012**, 28, 14672-80		25

1428	Life-Cycle Concepts for Sustainable Use of Engineered Nanomaterials in Nanoproducts. **2012**, 227	
1427	Chemometric analytical approach for the cloud point extraction and inductively coupled plasma mass spectrometric determination of zinc oxide nanoparticles in water samples. **2012**, 84, 6546-52	80
1426	Effects of salinity on the toxicity of ionic silver and Ag-PVP nanoparticles to Tisbe battagliai and Ceramium tenuicorne. **2012**, 86, 101-10	23
1425	New perspectives on nanomaterial aquatic ecotoxicity: production impacts exceed direct exposure impacts for carbon nanotoubes. **2012**, 46, 2902-10	132
1424	Environmental Nanoparticles Interactions with Plants: Morphological, Physiological, and Genotoxic Aspects. **2012**, 2012, 1-8	67
1423	Nanoaerosols including radon decay products in outdoor and indoor air at a suburban site. **2012**, 2012, 510876	6
1422	Strategic Nanoparticle-Mediated Gene Transfer in Plants and Animals - a Novel Approach. **2012**, 8, 170-179	37
1421	Impact of Fe and Ag nanoparticles on seed germination and differences in bioavailability during exposure in aqueous suspension and soil. **2012**, 27, 42-9	316
1420	Toxicity of silver and copper to Cucurbita pepo: differential effects of nano and bulk-size particles. **2012**, 27, 510-7	168
1419	Dissolution of ZnO nanoparticles at circumneutral pH: a study of size effects in the presence and absence of citric acid. **2012**, 28, 396-403	283
1418	Metal-based nanoparticles in soil: fate, behavior, and effects on soil invertebrates. **2012**, 31, 1679-92	301
1417	Toxicity of carbon nanotubes to freshwater aquatic invertebrates. **2012**, 31, 1823-30	56
1416	Microscopic and Spectroscopic Methods Applied to the Measurements of Nanoparticles in the Environment. **2012**, 47, 180-206	29
1415	Release of ultrafine particles from three simulated building processes. **2012**, 14, 1	33
1414	The effect of electrolytes on the aggregation kinetics of titanium dioxide nanoparticle aggregates. **2012**, 14, 1	20
1413	Size characterization of the associations between carbon nanotubes and humic acids in aqueous media by asymmetrical flow field-flow fractionation combined with multi-angle light scattering. **2012**, 86, 177-82	16
1412	Removal of silver nanoparticles in simulated wastewater treatment processes and its impact on COD and NH(4) reduction. **2012**, 87, 248-52	107
1411	Adsorption and breakdown of penicillin antibiotic in the presence of titanium oxide nanoparticles in water. **2012**, 87, 911-7	54

1410	Adsorptive removal of silver nanoparticles (SNPs) from aqueous solution by Aeromonas punctata and its adsorption isotherm and kinetics. **2012**, 92, 156-60		43
1409	Adsorption of cadmium(II) on humic acid coated titanium dioxide. **2012**, 367, 241-8		83
1408	Influence of pH and surface oxygen-containing groups on multiwalled carbon nanotubes on the transformation and adsorption of 1-naphthol. **2012**, 374, 226-31		22
1407	Bioaccumulation of Fe2O3(magnetic) nanoparticles in Ceriodaphnia dubia. *Environmental Pollution*, **2012**, 162, 216-22	9.3	48
1406	Cell-wall-dependent effect of carboxyl-CdSe/ZnS quantum dots on lead and copper availability to green microalgae. *Environmental Pollution*, **2012**, 167, 27-33	9.3	55
1405	Size dependent bioaccumulation and ecotoxicity of gold nanoparticles in an endobenthic invertebrate: the Tellinid clam Scrobicularia plana. *Environmental Pollution*, **2012**, 168, 37-43	9.3	86
1404	Toxic effects of engineered nanoparticles in the marine environment: model organisms and molecular approaches. **2012**, 76, 32-40		195
1403	Accumulation, translocation and impact of TiO2 nanoparticles in wheat (Triticum aestivum spp.): influence of diameter and crystal phase. *Science of the Total Environment*, **2012**, 431, 197-208	10.2	327
1402	The toxicological mode of action and the safety of synthetic amorphous silica-a nanostructured material. **2012**, 294, 61-79		316
1401	Sonochemical shape control of copper hydroxysulfates. **2012**, 19, 692-700		10
1400	Airborne engineered nanoparticles: potential risks and monitoring challenges for assessing their impacts on children. **2012**, 13, 79-83		20
1399	Natural micro-scale heterogeneity induced solute and nanoparticle retardation in fractured crystalline rock. **2012**, 133, 40-52		26
1398	Fate and biological effects of silver, titanium dioxide, and C60 (fullerene) nanomaterials during simulated wastewater treatment processes. **2012**, 201-202, 16-22		149
1397	Ecotoxicity of TiO2 to Daphnia similis under irradiation. **2012**, 211-212, 436-42		57
1396	Applications and implications of manufactured nanoparticles in soils: a review. **2012**, 63, 437-456		139
1395	Detecting nanoparticulate silver using single-particle inductively coupled plasma-mass spectrometry. **2012**, 31, 115-21		255
1394	Potential scenarios for nanomaterial release and subsequent alteration in the environment. **2012**, 31, 50-9		457
1393	Application of nanoscale zero valent iron (NZVI) for groundwater remediation in Europe. **2012**, 19, 550-8		363

1392	Life cycle assessment at nanoscale: review and recommendations. **2012**, 17, 295-303		89
1391	Nanoparticles in aquatic systems. **2012**, 402, 583-92		95
1390	Polymer-supported metals and metal oxide nanoparticles: synthesis, characterization, and applications. **2012**, 14, 1		304
1389	Nanoadsorbents: classification, preparation, and applications (with emphasis on aqueous media). **2013**, 113, 7728-68		353
1388	Evaluation of engineered nanoparticle toxic effect on wastewater microorganisms: current status and challenges. **2013**, 95, 1-9		55
1387	Silver nanoparticles in soil–plant systems. **2013**, 15, 1		121
1386	Crop Improvement Under Adverse Conditions. **2013**,		3
1385	Behavior of engineered nanoparticles in landfill leachate. **2013**, 47, 8114-22		26
1384	Direct and Indirect Toxic Effects of Engineered Nanoparticles on Algae: Role of Natural Organic Matter. **2013**, 1, 686-702		124
1383	Influence of functional groups on desorption of organic compounds from carbon nanotubes into water: insight into desorption hysteresis. **2013**, 47, 8373-82		17
1382	Ingestion of metal-nanoparticle contaminated food disrupts endogenous microbiota in zebrafish (Danio rerio). *Environmental Pollution*, **2013**, 174, 157-63	9.3	96
1381	Influence of structure and properties of colloidal biomaterials on cellular uptake and cell functions. **2013**, 1, 896-911		59
1380	Manufactured Nanomaterials: The Connection Between Environmental Fate and Toxicity. **2013**, 43, 2581-2616		15
1379	TiO2 nanoparticles aggregation and disaggregation in presence of alginate and Suwannee River humic acids. pH and concentration effects on nanoparticle stability. **2013**, 47, 6052-63		160
1378	Single cell array based assay for in vitro genotoxicity study of nanomaterials. **2013**, 85, 4107-12		44
1377	Nanomaterial Toxicity, Hazards, and Safety. **2013**, 1117-1142		2
1376	Cytotoxicity evaluation and subcellular location of titanium dioxide nanotubes. **2013**, 171, 1568-77		6
1375	Effects of nano carbon black and single-layer graphene oxide on settlement, survival and swimming behaviour of Amphibalanus amphitrite larvae. **2013**, 29, 643-652		41

1374	Adsorption of natural organic matter analogues by multi-walled carbon nanotubes: Comparison with powdered activated carbon. **2013**, 219, 450-458		56
1373	Effects of magnetite nanoparticles on soybean chlorophyll. **2013**, 47, 10645-52		126
1372	Aggregation kinetics and surface charge of CuO nanoparticles: the influence of pH, ionic strength and humic acids. **2013**, 10, 313		83
1371	Simultaneous adsorption and degradation of Zn(2+) and Cu (2+) from wastewaters using nanoscale zero-valent iron impregnated with clays. **2013**, 20, 3639-48		37
1370	Transport and deposition of Suwannee River Humic Acid/Natural Organic Matter formed silver nanoparticles on silica matrices: the influence of solution pH and ionic strength. **2013**, 92, 406-12		22
1369	Bioavailability of nanoparticulate hematite to Arabidopsis thaliana. *Environmental Pollution*, **2013**, 174, 150-6	9.3	37
1368	Encyclopedia of Aquatic Ecotoxicology. **2013**, 883-892		5
1367	Encyclopedia of Aquatic Ecotoxicology. **2013**, 917-926		2
1366	Effect of agglomeration of silver nanoparticle on nanotoxicity depression. **2013**, 30, 364-368		17
1365	Modeling the transport of TiO2 nanoparticle aggregates in saturated and unsaturated granular media: effects of ionic strength and pH. **2013**, 47, 1399-408		82
1364	Reaction of silver nanoparticles in the disinfection process. **2013**, 93, 619-25		30
1363	Ecotoxicological assessment of silica and polystyrene nanoparticles assessed by a multitrophic test battery. **2013**, 51, 97-105		133
1362	Toxicity of cadmium sulfide (CdS) nanoparticles against Escherichia coli and HeLa cells. **2013**, 260, 1073-82		82
1361	Exopolysaccharides protect Synechocystis against the deleterious effects of titanium dioxide nanoparticles in natural and artificial waters. **2013**, 405, 35-43		51
1360	Behavior of titanium dioxide nanoparticles in Lemna minor growth test conditions. **2013**, 88, 89-94		44
1359	Effects of particle size and coating on nanoscale Ag and TiO□exposure in zebrafish (Danio rerio) embryos. **2013**, 7, 1315-24		90
1358	Determination of carboxylic SWCNTs in river water by microextraction in ionic liquid and determination by Raman spectroscopy. **2013**, 105, 75-9		24
1357	Oxidized and Ethylenediamine-Functionalized Multi-Walled Carbon Nanotubes for the Separation of Low Concentration Arsenate from Water. **2013**, 48, 2047-2058		17

1356	Retention and remobilization of stabilized silver nanoparticles in an undisturbed loamy sand soil. **2013**, 47, 12229-37		101
1355	Toxicological profile of small airway epithelial cells exposed to gold nanoparticles. **2013**, 238, 1355-61		27
1354	Extracellular conversion of silver ions into silver nanoparticles by protozoan Tetrahymena thermophila. **2013**, 15, 244-50		23
1353	Extraction and analysis of silver and gold nanoparticles from biological tissues using single particle inductively coupled plasma mass spectrometry. **2013**, 47, 14315-23		165
1352	Characterization of nanoparticles from abrasive waterjet machining and electrical discharge machining processes. **2013**, 47, 12721-7		7
1351	An overview of solid/liquid separation methods and size fractionation techniques for engineered nanomaterials in aquatic environment. **2013**, 2, 55-70		15
1350	Evaluating the interactions of organic compounds with multi-walled carbon nanotubes by self-packed HPLC column and linear solvation energy relationship. **2013**, 263 Pt 2, 550-5		7
1349	Toxic effects of copper ion in zebrafish in the joint presence of CdTe QDs. *Environmental Pollution*, **2013**, 176, 158-64	9.3	39
1348	Correlation between the charge of polymer particles in solution and in the gas phase investigated by zeta-potential measurements and electrospray ionization mass spectrometry. **2013**, 29, 14074-81		18
1347	Contrasting responses of marine bacterial strains exposed to carboxylated single-walled carbon nanotubes. **2013**, 144-145, 230-41		6
1346	Filtration of engineered nanoparticles in carbon-based fixed bed columns. **2013**, 220, 221-227		27
1345	Silver Nanoparticles in Cancer: Therapeutic Efficacy and Toxicity. **2013**, 20, 772-781		6
1344	Interactive effects of cadmium and carbon nanotubes on the growth and metal accumulation in a halophyte Spartina alterniflora (Poaceae). **2013**, 71, 171-179		43
1343	Communication about scientific uncertainty: how scientists and science journalists deal with uncertainties in nanoparticle research. **2013**, 25,		14
1342	Encyclopedia of Aquatic Ecotoxicology. **2013**, 815-826		3
1341	Encyclopedia of Aquatic Ecotoxicology. **2013**, 893-908		4
1340	Review and prospect of emerging contaminants in waste--key issues and challenges linked to their presence in waste treatment schemes: general aspects and focus on nanoparticles. **2013**, 33, 2147-56		40
1339	Experimental evidence of colloids and nanoparticles presence from 25 waste leachates. **2013**, 33, 1870-81		49

1338	Role of molting on the biodistribution of CeO2 nanoparticles within Daphnia pulex. **2013**, 47, 3921-30		32
1337	Environmental concentrations of engineered nanomaterials: review of modeling and analytical studies. *Environmental Pollution*, **2013**, 181, 287-300	9.3	816
1336	NR/CSM/biogenic silica rubber blend composites. **2013**, 55, 368-373		14
1335	The influence of ZnO and TiO2 nanoparticles on the toxicity of sewage sludges. **2013**, 15, 296-306		20
1334	Transport of oxidized multi-walled carbon nanotubes through silica based porous media: influences of aquatic chemistry, surface chemistry, and natural organic matter. **2013**, 47, 14034-43		26
1333	Inhibitory effects of carbon nanotubes on the degradation of 14C-2,4-dichlorophenol in soil. **2013**, 90, 527-34		23
1332	Transport and retention of multi-walled carbon nanotubes in saturated porous media: effects of input concentration and grain size. **2013**, 47, 933-44		127
1331	Toxicity of functionalized single-walled carbon nanotubes on soil microbial communities: implications for nutrient cycling in soil. **2013**, 47, 625-33		124
1330	Diuron sorbed to carbon nanotubes exhibits enhanced toxicity to Chlorella vulgaris. **2013**, 47, 7012-9		90
1329	Accumulation of Aqueous and Nanoparticulate Silver by the Marine Gastropod Littorina littorea. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	17
1328	Phytotoxic hazards of NiO-nanoparticles in tomato: a study on mechanism of cell death. **2013**, 250-251, 318-32		209
1327	Assessing protein oxidation by inorganic nanoparticles with enzyme-linked immunosorbent assay (ELISA). **2013**, 110, 694-701		8
1326	Limited transport of functionalized multi-walled carbon nanotubes in two natural soils. *Environmental Pollution*, **2013**, 180, 152-8	9.3	50
1325	Photoreactivity of hydroxylated multi-walled carbon nanotubes and its effects on the photodegradation of atenolol in water. **2013**, 93, 1747-54		14
1324	The role of photochemical transformations in the aggregation and deposition of carboxylated multiwall carbon nanotubes suspended in water. **2013**, 55, 81-89		30
1323	Induction of cell death by graphene in Arabidopsis thaliana (Columbia ecotype) T87 cell suspensions. **2013**, 260, 1032-41		59
1322	Engineered nanomaterials in water and soils: a risk quantification based on probabilistic exposure and effect modeling. **2013**, 32, 1278-87		143
1321	Liver alterations in two freshwater fish species (Carassius auratus and Danio rerio) following exposure to different TiO nanoparticle concentrations. **2013**, 19, 1131-40		30

1320	Mobility of TX100 suspended multiwalled carbon nanotubes (MWCNTs) and the facilitated transport of phenanthrene in real soil columns. **2013**, 207-208, 1-7		37
1319	High concentrations of single-walled carbon nanotubes lower soil enzyme activity and microbial biomass. **2013**, 88, 9-15		84
1318	Behaviour of Au-citrate nanoparticles in seawater and accumulation in bivalves at environmentally relevant concentrations. *Environmental Pollution*, **2013**, 174, 134-41	9.3	76
1317	Optical characterization of nano-sized organic carbon particles emitted from a small gasoline engine. **2013**, 11, 249-255		6
1316	Mapping the dawn of nanoecotoxicological research. **2013**, 46, 823-33		126
1315	Sorption of trace organics and engineered nanomaterials onto wetland plant material. **2013**, 15, 267-74		19
1314	DNA delivery via cationic solid lipid nanoparticles (SLNs). **2013**, 49, 157-65		38
1313	Silver nanoparticle toxicity effect on growth and cellular viability of the aquatic plant Lemna gibba. **2013**, 32, 902-7		137
1312	Nanomaterials and nanotechnologies: methods of analysis and control. **2013**, 82, 48-76		38
1311	Effects of nano-sized zero-valent iron (nZVI) on DDT degradation in soil and its toxicity to collembola and ostracods. **2013**, 92, 131-7		107
1310	Graphene oxide-facilitated reduction of nitrobenzene in sulfide-containing aqueous solutions. **2013** , 47, 4204-10		133
1309	Nanobiotechnology: Scope and Potential for Crop Improvement. **2013**, 245-269		9
1308	Enhancement of water solubility and mobility of phenanthrene by natural soil nanoparticles. *Environmental Pollution*, **2013**, 176, 228-33	9.3	24
1307	Differentiation and characterization of isotopically modified silver nanoparticles in aqueous media using asymmetric-flow field flow fractionation coupled to optical detection and mass spectrometry. **2013**, 763, 57-66		48
1306	Occurrence, Structure and Mineral Phases of Nanoparticles in an Anthrosol. *Pedosphere*, **2013**, 23, 273-280	3	2
1305	Multiwalled carbon nanotubes at environmentally relevant concentrations affect the composition of benthic communities. **2013**, 47, 7475-82		27
1304	Impact of Nanomaterials on Health and Environment. **2013**, 38, 457-477		20
1303	Enhanced sorption of naphthalene and p-nitrophenol by nano-SiO2 modified with a cationic surfactant. **2013**, 47, 4006-12		31

1302	Increased adsorption of sulfamethoxazole on suspended carbon nanotubes by dissolved humic acid. **2013**, 47, 7722-8	77
1301	Disruption of biomolecule function by nanoparticles: how do gold nanoparticles affect Phase I biotransformation of persistent organic pollutants?. **2013**, 93, 123-32	6
1300	Sub-lethal effects of titanium dioxide nanoparticles on the physiology and reproduction of zebrafish. **2013**, 126, 404-13	79
1299	Influence of surface conductivity on the apparent zeta potential of TiO2 nanoparticles: application to the modeling of their aggregation kinetics. **2013**, 406, 75-85	42
1298	Interaction between Escherichia coli and TiO2 nanoparticles in natural and artificial waters. **2013**, 102, 158-64	46
1297	Alteration in protein profile of Pseudomonas aeruginosa (PTSOX4) coated with magnetic Fe3O4 nanoparticles. **2013**, 3, 1	3
1296	Mechanistic heteroaggregation of gold nanoparticles in a wide range of solution chemistry. **2013**, 47, 1853-60	69
1295	Aggregation and dissolution of silver nanoparticles in a laboratory-based freshwater microcosm under simulated environmental conditions. **2013**, 95, 1690-1701	11
1294	Nanomaterial Removal and Transformation During Biological Wastewater Treatment. **2013**, 30, 109-117	91
1293	Urban Air Quality in Europe. **2013**,	5
1292	Genotoxic and carcinogenic potential of engineered nanoparticles: an update. **2013**, 87, 1883-1900	106
1291	An assessment of fluorescence- and absorbance-based assays to study metal-oxide nanoparticle ROS production and effects on bacterial membranes. **2013**, 9, 1753-64	48
1290	Wollastonite Foams From an Extruded Preceramic Polymer Mixed with CaCO3 Microparticles Assisted by Supercritical Carbon Dioxide. **2013**, 15, 60-65	12
1289	Behavior of ZnO Nanoparticles in Aqueous Environments: Influence of pH and Adsorption of Humic Acid. **2013**, 832, 728-733	1
1288	Th(IV) Adsorption onto Oxidized Multi-Walled Carbon Nanotubes in the Presence of Hydroxylated Fullerene and Carboxylated Fullerene. **2013**, 6, 4168-4185	14
1287	Transport Behavior of Engineered Nanosized Photocatalytic Materials in Water. **2013**, 2013, 1-13	4
1286	Influence of Electrolytes and Humic Acid on Aggregation Behavior of C60 Nanoparticles in Aquatic System. **2013**, 448-453, 48-51	
1285	Synthesis, Characterization and, the Heavy Metal Removal Efficiency of MFe2O4 (M=Ni, Cu) Nanoparticles. **2013**, 89-96	24

1284	A study of nanoparticles in Ulaanbaatar soil. **2013**,	
1283	Enhancement of Extraction Amount and Dispersibility of Soil Nanoparticles by Natural Organic Matter in Soils. **2013**, 769-772	2
1282	Ecotoxicity of nanoparticles. **2013**, 2013, 574648	73
1281	Emerging Threats to Fishes: Engineered Organic Nanomaterials. **2013**, 439-479	4
1280	Challenges for exposure prediction in ecological risk assessment. **2013**, 9, e4-14	34
1279	Multi-functional nano-materials for timber in construction. **2013**, 166, 248-256	5
1278	Nanomaterials: Removal processes and beneficial applications in treatment. **2013**, 105, E699-E708	5
1277	Investigation of Nanoparticle Adsorption during Transport in Porous Media. **2013**,	19
1276	Metal oxide nanoparticle transport in porous media an analysis about (un)certainties in environmental research. **2013**, 429, 012042	9
1275	Emission of hydrophilic soot precursor particulates from small gasoline engine at different load conditions. **2013**, 86, 78-84	1
1274	Role of nanoparticles in analytical solid phase microextraction (SPME). **2013**, 10, 120	4
1273	In vitro assessment of Ag2O nanoparticles toxicity against Gram-positive and Gram-negative bacteria. **2013**, 59, 83-8	16
1272	Advances of nanotechnology in agro-environmental studies. **2013**, 8, 18	45
1271	Acute toxicity of TiO2 nanoparticles to Ceriodaphnia dubia under visible light and dark conditions in a freshwater system. **2013**, 8, e62970	43
1270	Harmful Impact of ZnS Nanoparticles on Daphnia sp. in the Western Part (Districts of Bankura and Purulia) of West Bengal, India. **2013**, 2013, 1-7	7
1269	Penetration of nanoparticles into human skin. **2013**, 19, 6353-66	40
1268	Nanotechnology in agriculture: prospects and constraints. **2014**, 7, 63-71	234
1267	Potential Impact of Multi-Walled Carbon Nanotubes Exposure to the Seedling Stage of Selected Plant Species. **2014**, 4, 203-221	59

1266	Metals as Water Quality Parameters Role of Speciation and Bioavailability. **2014**, 315-328		2
1265	Effects of surface-modified nano-scale carbon black on Cu and Zn fractionations in contaminated soil. **2014**, 16, 86-94		17
1264	Surface modified mesostructured iron oxyhydroxide: synthesis, ecotoxicity, and application. **2014**, 86, 2338-46		5
1263	Speciation of iron in the aquatic environment. **2014**, 86, 741-58		11
1262	Decontamination of skin exposed to nanocarriers using an absorbent textile material and PEG-12 dimethicone. **2014**, 11, 115603		4
1261	The technofossil record of humans. **2014**, 1, 34-43		93
1260	The toxic effects of l-Cysteine-capped cadmium sulfide nanoparticles on the aquatic plant Spirodela polyrrhiza. **2014**, 16, 1		24
1259	Biosynthesis of Metal Nanoparticles and their Applications. **2014**, 239-266		8
1258	Toxicity, bioaccumulation and biomagnification of silver nanoparticles in green algae (Chlorella sp.), water flea (Moina macrocopa), blood worm (Chironomus spp.) and silver barb (Barbonymus gonionotus). **2014**, 26, 257-265		60
1257	Engineered Nanomaterials Impact Biological Carbon Conversion in Soils. **2014**, 31, 381-392		6
1256	Current status and future direction for examining engineered nanoparticles in natural systems. **2014**, 11, 351		88
1255	Toxicity Study of TiO2, ZnO and CNT Nanomaterials. **2014**, 703-706		1
1254	Chronic TiO nanoparticle exposure to a benthic organism, Hyalella azteca: impact of solar UV radiation and material surface coatings on toxicity. *Science of the Total Environment*, **2014**, 499, 356-62	10.2	17
1253	Engineered Nanomaterials: Knowledge Gaps in Fate, Exposure, Toxicity, and Future Directions. **2014**, 2014, 1-16		28
1252	Foreword to the Research Front on Detection of nanoparticles in the environment. **2014**, 11, i		
1251	Uptake of iron nanoparticles by Aphanorrhegma patens (Hedw.) Lindb.. **2014**, 36, 104-109		8
1250	A review and perspective of existing research on the release of nanomaterials from solid nanocomposites. **2014**, 11, 17		130
1249	Nanoplastic affects growth of S. obliquus and reproduction of D. magna. **2014**, 48, 12336-43		610

1248	Accumulation and embryotoxicity of polystyrene nanoparticles at early stage of development of sea urchin embryos Paracentrotus lividus. **2014**, 48, 12302-11		367
1247	Sustainable Nanotechnology. **2014**, 395-424		2
1246	Fabricated nanoparticles: current status and potential phytotoxic threats. **2014**, 230, 83-110		37
1245	Estuarine sediment hydrocarbon-degrading microbial communities demonstrate resilience to nanosilver. **2014**, 96, 206-215		12
1244	Interactions of Nanoparticles with Plants: An Emerging Prospective in the Agriculture Industry. **2014**, 159-180		44
1243	Toxicity of CuO Engineered Nanoparticles to Eichhornia crassipes. **2014**, 881-883, 976-979		
1242	Antimicrobial and Genotoxicity Effects of Zero-valent Iron Nanoparticles. **2014**, 7, e10054		25
1241	Influences of TiO2 Nanoparticles on the Transport of Hydrophobic Organic Contaminant in Soil. **2014**, 1010-1012, 55-68		
1240	Heteroaggregation and sedimentation rates for nanomaterials in natural waters. **2014**, 48, 269-79		179
1239	Nanoparticles: a global vision. Characterization, separation, and quantification methods. Potential environmental and health impact. **2014**, 6, 38-56		192
1238	Immune toxicity of TiO₂ under hypoxia in the green-lipped mussel Perna viridis based on flow cytometric analysis of hemocyte parameters. *Science of the Total Environment*, **2014**, 470-471, 791-9	10.2	47
1237	Zinc oxide nanoparticles delay soybean development: a standard soil microcosm study. **2014**, 100, 131-7		93
1236	Inhibitory effects of ZnO nanoparticles on aerobic wastewater biofilms from oxygen concentration profiles determined by microelectrodes. **2014**, 276, 164-70		85
1235	The characteristics of flocs and zeta potential in nano-TiO2 system under different coagulation conditions. **2014**, 452, 181-188		12
1234	Soil pH effects on the comparative toxicity of dissolved zinc, non-nano and nano ZnO to the earthworm Eisenia fetida. **2014**, 8, 559-72		94
1233	Enhanced toxicity of 'bulk' titanium dioxide compared to 'fresh' and 'aged' nano-TiO2 in marine mussels (Mytilus galloprovincialis). **2014**, 8, 549-58		106
1232	Fraction-related quantification of silver nanoparticlesvia on-line species-unspecific post-channel isotope dilution in combination with asymmetric flow-field-flow fractionation (AF4)/sector field ICP-mass spectrometry (ICP-SF-MS). **2014**, 29, 287-296		24
1231	The zebrafish (Danio rerio) as a model organism, with emphasis on applications for finfish aquaculture research. **2014**, 6, 209-240		78

1230	In vitro genotoxic effects of ZnO nanomaterials in human peripheral lymphocytes. **2014**, 66, 317-25		13
1229	Nanoparticles in wastewaters: Hazards, fate and remediation. **2014**, 255, 149-156		94
1228	LII□dar: range-resolved backward picosecond laser-induced incandescence. **2014**, 115, 111-121		9
1227	Removal of silver nanoparticles using live and heat shock Aspergillus niger cultures. **2014**, 30, 1747-54		4
1226	Phytotoxicity assessment of □Fe2O3 nanoparticles on root elongation and growth of rice plant. **2014**, 71, 5173-5182		47
1225	Reviews of Environmental Contamination and Toxicology volume. **2014**,		
1224	Speciation of metal(loid)s in environmental samples by X-ray absorption spectroscopy: a critical review. **2014**, 822, 1-22		127
1223	A marine mesocosm study on the environmental fate of silver nanoparticles and toxicity effects on two endobenthic species: the ragworm Hediste diversicolor and the bivalve mollusc Scrobicularia plana. *Science of the Total Environment*, **2014**, 470-471, 1151-9	10.2	109
1222	A simple and sensitive biosensor for rapid detection of nanoparticles in water. **2014**, 16, 1		4
1221	Comparative effects of zinc oxide nanoparticles and dissolved zinc on zebrafish embryos and eleuthero-embryos: importance of zinc ions. *Science of the Total Environment*, **2014**, 476-477, 657-66	10.2	96
1220	Effects of nano-TiO□on the agronomically-relevant Rhizobium-legume symbiosis. *Science of the Total Environment*, **2014**, 466-467, 503-12	10.2	81
1219	Evaluation of the combined toxicity of multi-walled carbon nanotubes and sodium pentachlorophenate on the earthworm Eisenia fetida using avoidance bioassay and comet assay. **2014**, 70, 123-130		30
1218	Influence of Ionic Strength and Flow Rate on Silt Particle Deposition and Release in Saturated Porous Medium: Experiment and Modeling. **2014**, 103, 1-24		28
1217	A new method for separation, characterization, and quantification of natural nanoparticles from soils. **2014**, 16, 1		4
1216	Effects of silver nanoparticle on soil-nitrification processes. **2014**, 66, 504-13		41
1215	The impact of titanium dioxide nanoparticles on biological nitrogen removal from wastewater and bacterial community shifts in activated sludge. **2014**, 25, 167-77		48
1214	Silver nanoparticle protein corona composition compared across engineered particle properties and environmentally relevant reaction conditions. **2014**, 1, 238-247		41
1213	Uncoated and coated ZnO nanoparticle life cycle in synthetic seawater. **2014**, 33, 341-9		30

1212	A bibliometric analysis of research on the risk of engineering nanomaterials during 1999-2012. *Science of the Total Environment*, **2014**, 473-474, 483-9	10.2	63
1211	Transport of nanoparticles and kinetics in packed beds: A numerical approach with lattice Boltzmann simulations and particle tracking. **2014**, 72, 319-328		13
1210	Cellular uptake of nanoparticles as determined by particle properties, experimental conditions, and cell type. **2014**, 33, 481-92		246
1209	Safety aspects of nanotechnology based activity. **2014**, 63, 217-225		19
1208	Quantitative assessment of inhalation exposure and deposited dose of aerosol from nanotechnology-based consumer sprays. **2014**, 1, 161-171		26
1207	The induction of biochemical changes in Daphnia magna by CuO and ZnO nanoparticles. **2014**, 150, 201-9		63
1206	Behavior of nanoscale titanium dioxide in laboratory wastewater treatment plants according to OECD 303 A. **2014**, 104, 197-204		31
1205	Effects of engineered silver nanoparticles on the growth and activity of ecologically important microbes. **2014**, 6, 448-58		50
1204	Risk preventative innovation strategies for emerging technologies the cases of nano-textiles and smart textiles. **2014**, 34, 420-430		48
1203	Measurement and sampling techniques for characterization of airborne nanoparticles released from nano-enhanced products. **2014**, 78-111		5
1202	Influence of PbS nanoparticle polymer coating on their aggregation behavior and toxicity to the green algae Dunaliella salina. **2014**, 154, 176-83		23
1201	Determination of nanosilver dissolution kinetics and toxicity in an environmentally relevant aqueous medium. **2014**, 33, 1783-91		20
1200	Metal accumulation and antioxidant defenses in the freshwater fish Carassius auratus in response to single and combined exposure to cadmium and hydroxylated multi-walled carbon nanotubes. **2014**, 275, 89-98		56
1199	Toxicity of ZnO engineered nanoparticles and evaluation of their effect on growth, metabolism and tissue specific accumulation in Brassica juncea. *Journal of Environmental Chemical Engineering*, **2014**, 2, 105-114	6.8	91
1198	Influence of stabilizers on the antimicrobial properties of silver nanoparticles introduced into natural water. **2014**, 26, 542-9		23
1197	Colloids in the Environmental Protection Current and Future Trends. **2014**, 635-677		1
1196	Current and Emerging Technologies for the Characterization of Nanomaterials. **2014**, 2, 1707-1716		47
1195	Effects of chloride and ionic strength on physical morphology, dissolution, and bacterial toxicity of silver nanoparticles. **2014**, 48, 761-9		141

1194	Nanoparticles meet cell membranes: probing nonspecific interactions using model membranes. **2014**, 48, 873-80		158
1193	Evaporation induced self assembled microstructures of silica nanoparticles and Streptococcus lactis cells as sorbent for uranium (VI). **2014**, 414, 33-40		17
1192	Stability studies for titanium dioxide nanoparticles upon adsorption of Suwannee River humic and fulvic acids and natural organic matter. *Science of the Total Environment*, **2014**, 468-469, 249-57	10.2	119
1191	Toxic effect of Cr(VI) in presence of n-TiO2 and n-Al2O3 particles towards freshwater microalgae. **2014**, 146, 28-37		36
1190	Tracking and quantification of single-walled carbon nanotubes in fish using near infrared fluorescence. **2014**, 48, 1973-83		40
1189	Zinc oxide nanoparticles toxicity to Daphnia magna: size-dependent effects and dissolution. **2014**, 33, 190-8		111
1188	Aggregation and disaggregation of ZnO nanoparticles: influence of pH and adsorption of Suwannee River humic acid. *Science of the Total Environment*, **2014**, 468-469, 195-201	10.2	191
1187	Removal of Metal Oxide Nanoparticles from Aqueous Suspensions. **2014**, 49, 161-170		11
1186	Effects of ionization on the toxicity of silver nanoparticles to Japanese medaka (Oryzias latipes) embryos. **2014**, 49, 287-93		5
1185	Comparison of three labeled silica nanoparticles used as tracers in transport experiments in porous media. Part II: transport experiments and modeling. *Environmental Pollution*, **2014**, 184, 613-9	9.3	14
1184	Environmental Applications of Magnetic Nanoparticles. **2014**, 259-307		14
1183	Potential Toxicity of Food Ingredients Loaded in Nano- and Microparticles. **2014**, 363-381		1
1182	Determination of Gold Nanoparticles in Biological, Environmental, and Agrifood Samples. *Comprehensive Analytical Chemistry*, **2014**, 395-426	1.9	2
1181	Derivatization of Colloidal Gold Nanoparticles Toward Their Application in Life Sciences. *Comprehensive Analytical Chemistry*, **2014**, 66, 153-206	1.9	
1180	Analytical Nanoscience and Nanotechnology. *Comprehensive Analytical Chemistry*, **2014**, 3-35	1.9	5
1179	Modeling the effects of water velocity on TiO2 nanoparticles transport in saturated porous media. **2014**, 171, 42-8		22
1178	Review: use of conifer needles as passive samplers of inorganic pollutants in air quality monitoring. **2014**, 6, 6208		19
1177	Colloid-Mediated Transport and the Fate of Contaminants in Soils. **2014**, 397-451		3

1176	On Size Fractionation of Iron Oxide Nanoclusters by Low Magnetic Field Gradient. **2014**, 118, 24042-24054		32
1175	A review of fundamental drivers governing the emissions, dispersion and exposure to vehicle-emitted nanoparticles at signalised traffic intersections. **2014**, 97, 316-331		57
1174	Fate and Bioavailability of Engineered Nanoparticles in Soils: A Review. **2014**, 44, 2720-2764		299
1173	Hazardous effect of ZnS nanoparticles on the feeding behaviour, growth and maturation process of the Asian striped catfish, Mystus vittatus (Bloch, 1794). **2014**, 6, 113-125		6
1172	Effect of natural organic matter on the disagglomeration of manufactured TiO2 nanoparticles. **2014**, 1, 154		52
1171	Oxidation of c60 aerosols by atmospherically relevant levels of o3. **2014**, 48, 2706-14		31
1170	Heavy metal uptake and toxicity in the presence of titanium dioxide nanoparticles: a factorial approach using Daphnia magna. **2014**, 48, 6965-72		90
1169	Effect of TiO2 nanoparticles and UV radiation on extracellular enzyme activity of intact heterotrophic biofilms. **2014**, 48, 11620-8		46
1168	Directed assembly of bifunctional silica-iron oxide nanocomposite with open shell structure. **2014**, 6, 16508-18		12
1167	The effect of nC□on tissue distribution of ibuprofen in Cyprinus carpio. *Science of the Total Environment*, **2014**, 496, 453-460	10.2	9
1166	Biocatalytic Synthesis Pathways, Transformation, and Toxicity of Nanoparticles in the Environment. **2014**, 44, 1679-1739		26
1165	Cotransport of multi-walled carbon nanotubes and titanium dioxide nanoparticles in saturated porous media. *Environmental Pollution*, **2014**, 195, 31-8	9.3	35
1164	Molecular Bases of Nanotoxicology. **2014**, 229-254		4
1163	Evaluating the potential of three Fe- and Mn-(nano)oxides for the stabilization of Cd, Cu and Pb in contaminated soils. **2014**, 146, 226-234		55
1162	The effect of inorganic nanoparticles (ZnO, Cr2O3, CuO and Ni) and their bulk counterparts on enzyme activities in different soils. **2014**, 232-234, 528-537		59
1161	Methods, Mechanisms and Typical Bio-Indicators of Engineered Nanoparticle Ecotoxicology: An Overview. **2014**, 42, 377-385		5
1160	Sorption behavior of copper nanoparticles in soils compared to copper ions. **2014**, 235-236, 127-132		21
1159	Effect of model dissolved organic matter coating on sorption of phenanthrene by TiO2 nanoparticles. *Environmental Pollution*, **2014**, 194, 31-37	9.3	18

1158	X-ray and electron microscopy studies on the biodistribution and biomodification of iron oxide nanoparticles in Daphnia magna. **2014**, 122, 384-389		19
1157	C60 fullerene soil sorption, biodegradation, and plant uptake. **2014**, 48, 2792-7		83
1156	In vitro Toxicological Study of Metal Oxides Nanoparticles on Oxidation of Succinate in Krebs Cycle and Their Resultant Effect in Metabolic Pathways. **2014**, 61, 525-532		1
1155	Chemical transformation of zinc oxide nanoparticles as a result of interaction with hydroxyapatite. **2014**, 461, 126-132		13
1154	Impacts of size and shape of silver nanoparticles on Arabidopsis plant growth and gene expression. **2014**, 83, 57-64		262
1153	Common strategies and technologies for the ecosafety assessment and design of nanomaterials entering the marine environment. **2014**, 8, 9694-709		123
1152	Environmental risks of engineered nanomaterials. **2014**, 15, 547-551		3
1151	Slow biotransformation of carbon nanotubes by horseradish peroxidase. **2014**, 48, 4826-34		64
1150	Effects of physiochemical properties of test media on nanoparticle toxicity to Daphnia magna Straus. **2014**, 93, 257-62		24
1149	Comparative toxicity of metal oxide nanoparticles (CuO, ZnO and TiO2) to developing zebrafish embryos. **2014**, 16, 1		54
1148	A comparative study of the toxicological aspects of vanadium pentoxide and vanadium oxide nanoparticles. **2014**, 26, 772-88		20
1147	The use of life cycle tools to support decision making for sustainable nanotechnologies. **2014**, 16, 757-772		34
1146	Effects of inorganic nanoparticles on viability and catabolic activities of Agrobacterium sp. PH-08 during biodegradation of dibenzofuran. **2014**, 25, 655-68		12
1145	Direct identification of hazardous elements in ultra-fine and nanominerals from coal fly ash produced during diesel co-firing. *Science of the Total Environment*, **2014**, 470-471, 444-52	10.2	98
1144	Ultratrace determination of silver, gold, and iron oxide nanoparticles by micelle mediated preconcentration/selective back-extraction coupled with flow injection chemiluminescence detection. **2014**, 86, 3484-92		55
1143	Emerging patterns for engineered nanomaterials in the environment: a review of fate and toxicity studies. **2014**, 16, 1		219
1142	Uptake and bioaccumulation of titanium- and silver-nanoparticles in aquatic ecosystems. **2014**, 10, 9-17		42
1141	Effect of TiO2, Al2O3, and Fe3O4 nanoparticles on phosphorus removal from aqueous solution. **2014**, 33, n/a-n/a		8

1140	Rapid settling of nanoparticles due to heteroaggregation with suspended sediment. **2014**, 33, 1766-73		79
1139	Accumulation and distribution of multiwalled carbon nanotubes in zebrafish (Danio rerio). **2014**, 48, 12256-64		64
1138	Fabrication, Properties of Nanoshells with Controllable Surface Charge and its Applications. **2014**, 121-145		1
1137	Nanofluidics. **2014**,		21
1136	Effects of Added Fe°, Fe3O4, and Fe2O3 on Sorption of Cephalosporin Antibiotic in Quartz-Rich Sands. **2014**, 140, 40-47		4
1135	Combined effects of silver nanoparticles and 17□ethinylestradiol on the freshwater mudsnail Potamopyrgus antipodarum. **2014**, 21, 10661-70		32
1134	Physicochemical properties and biodegradability of organically functionalized colloidal silica particles in aqueous environment. **2014**, 99, 96-101		6
1133	Combined effect of UV-irradiation and TiO□nanoparticles on the predator-prey interaction of gammarids and mayfly nymphs. *Environmental Pollution*, **2014**, 186, 136-40	9.3	21
1132	Comparison of nanosilver removal by flocculent and granular sludge and short- and long-term inhibition impacts. **2014**, 58, 62-70		64
1131	Stability studies of commercial ZnO engineered nanoparticles in domestic wastewater. **2014**, 67-69, 140-144		26
1130	Metal and nanoparticle occurrence in biosolid-amended soils. *Science of the Total Environment*, **2014**, 485-486, 441-449	10.2	61
1129	Adsorption of sediment phosphorus by porous ceramic filter media coated with nano-titanium dioxide film. **2014**, 64, 186-192		26
1128	Modulatory effect of nano TiO□n Pb in Hoplias malabaricus trophically exposed. **2014**, 38, 71-8		7
1127	Release of engineered nanomaterials from personal care products throughout their life cycle. **2014** , 16, 1		104
1126	Importance of nanoparticles and colloids from volcanic ash for riverine transport of trace elements to the ocean: evidence from glacial-fed rivers after the 2010 eruption of Eyjafjallajökull Volcano, Iceland. *Science of the Total Environment*, **2014**, 488-489, 243-51	10.2	37
1125	Long-term effects of nanoscaled titanium dioxide on the cladoceran Daphnia magna over six generations. *Environmental Pollution*, **2014**, 186, 180-6	9.3	47
1124	Environmental Risks of Nanotechnology. **2014**, 503-521		2
1123	IntroductionBiointeractions of Nanomaterials: Challenges and Solutions. **2014**, 1-48		4

1122	Nanoparticles Released into Water Systems from Nanoproducts and Structural Nanocomposites Applications. **2014**, 21-36	
1121	Alternative assessment of nano-TiO2 sedimentation under different conditions based on sedimentation efficiency at quasi-stable state. **2015**, 17, 1	1
1120	Chromium oxide nanoparticle-induced genotoxicity and p53-dependent apoptosis in human lung alveolar cells. **2015**, 35, 1179-88	20
1119	Biochar, activated carbon, and carbon nanotubes have different effects on fate of (14)C-catechol and microbial community in soil. **2015**, 5, 16000	34
1118	Morphological and biochemical responses of Abelmoschus esculantus (L.) Moench to zinc nanoparticles. **2015**, 6, 025017	5
1117	Ecological toxicity of engineered nano materials to the organisms in the environment. **2015**, 335-338	1
1116	Effect of nanoparticles injected into larvae on spermatogenesis in the pupal testis of the sweet potato hornworm, Agrius convolvuli (L.). **2015**, 2, 1-8	4
1115	Predicting colloid transport through saturated porous media: A critical review. **2015**, 51, 6804-6845	152
1114	Evaluation of Available Tools for Assessment of Emerging Risks of Nanomaterials. **2015**, 6, 586-596	
1113	Genotoxic and oxidative responses in coelomocytes of Eisenia fetida and Hediste diversicolor exposed to lipid-coated CdSe/ZnS quantum dots and CdCl2. **2015**, 30, 918-26	18
1112	The Challenge: Carbon nanomaterials in the environment: New threats or wonder materials?. **2015**, 34, 954	10
1111	NanoE-Tox: New and in-depth database concerning ecotoxicity of nanomaterials. **2015**, 6, 1788-804	93
1110	Ecotoxicity of Nanoparticles in Aquatic Environments: A Review Based on Multivariate Statistics of Meta-Data. **2015**, 02,	3
1109	Application of Multi-Species Microbial Bioassay to Assess the Effects of Engineered Nanoparticles in the Aquatic Environment: Potential of a Luminous Microbial Array for Toxicity Risk Assessment (LumiMARA) on Testing for Surface-Coated Silver Nanoparticles. **2015**, 12, 8172-86	13
1108	Assessment of the Phytotoxicity of Metal Oxide Nanoparticles on Two Crop Plants, Maize (Zea mays L.) and Rice (Oryza sativa L.). **2015**, 12, 15100-9	142
1107	Developmental and Reproductive Effects of Iron Oxide Nanoparticles in Arabidopsis thaliana. **2015**, 16, 24174-93	43
1106	Plant Responses to Nanoparticle Stress. **2015**, 16, 26644-53	158
1105	Effects of functionalized and raw multi-walled carbon nanotubes on soil bacterial community composition. **2015**, 10, e0123042	51

1104	Nano-TiO2 Is Not Phytotoxic As Revealed by the Oilseed Rape Growth and Photosynthetic Apparatus Ultra-Structural Response. **2015**, 10, e0143885		23
1103	An Analytic Contemplation of the Conspicuous Vicissitudes in the Histomorphology of Corpuscles of Stannius of a Freshwater Catfish Mystus tengara (Hamilton, 1822) due to the Exposure of ZnS Nanoparticles. **2015**, 2015, 697053		3
1102	Impact of Zn Nanoparticles on Growth, Survival and Activity of Antioxidant Enzymes in Eisenia Fetida. **2015**, 9,		4
1101	Carbon nanomaterials in clean and contaminated soils: environmental implications and applications. **2015**, 1, 1-21		15
1100	The impact of carbon nanomaterials on the development of phenanthrene catabolism in soil. **2015**, 17, 1302-10		8
1099	Innovations in nanotechnology for water treatment. **2015**, 8, 1-17		310
1098	Long-term effects of engineered nanoparticles on enzyme activity and functional bacteria in wastewater treatment plants. **2015**, 72, 99-105		17
1097	Effect of inorganic nanoparticles on 17β-estradiol and 17α-ethynylestradiol adsorption by multi-walled carbon nanotubes. *Environmental Pollution*, **2015**, 205, 111-20	9.3	29
1096	Methods for Measuring Concentration (Mass, Surface Area and Number) of Nanomaterials. **2015**, 8, 153-181		8
1095	Reduction of Nitrate in Groundwater by Fe(0)/Magnetite Nanoparticles Entrapped in Ca-Alginate Beads. *Water, Air, and Soil Pollution*, **2015**, 226, 1	2.6	21
1094	Investigation of Nanoparticle Adsorption During Transport in Porous Media. **2015**, 20, 667-677		89
1093	Nanoparticles-Based Delivery Systems in Plant Genetic Transformation. **2015**, 209-239		2
1092	Emissions of volatile organic compounds from lacquer coatings used in the furniture industry, modified with nanoparticles of inorganic metal compounds. **2015**, 39, 251-259		2
1091	Risk Management and Surveillance of Nanomaterials for Public Health. **2015**, 285-303		2
1090	Application of Nanotechnology in Biomedicine: A Major Focus on Cancer Therapy . **2015**, 35, 55-66		10
1089	Nanoparticle pollution and associated increasing potential risks on environment and human health: a case study of China. **2015**, 22, 19297-306		28
1088	Porous PMMA-titania composites: A step towards more sustainable photocatalysis. **2015**, 8, 179-185		13
1087	Nanomaterials Associated Metabolomics: Tool and Techniques for Assessment of Nanomaterials in Environmental Matrices. **2015**, 513-551		

1086	Low biosorption of PVA coated engineered magnetic nanoparticles in granular sludge assessed by magnetic susceptibility. *Science of the Total Environment*, **2015**, 537, 43-50	10.2	10
1085	Interactions between suspension characteristics and physicochemical properties of silver and copper oxide nanoparticles: a case study for optimizing nanoparticle stock suspensions using a central composite design. **2015**, 124, 136-42		8
1084	Impact of nanoparticles on human and environment: review of toxicity factors, exposures, control strategies, and future prospects. **2015**, 22, 4122-43		212
1083	Carbon NanotubeBioaccumulation and Recent Advances in Environmental Monitoring. **2015**, 45, 905-938		31
1082	Adsorption of Diethyl Phthalate on Carbon Nanotubes: pH Dependence and Thermodynamics. **2015**, 32, 103-110		11
1081	The impact of TiO2 nanoparticles on uptake and toxicity of benzo(a)pyrene in the blue mussel (Mytilus edulis). *Science of the Total Environment*, **2015**, 511, 469-76	10.2	43
1080	Evaluation of charge and agglomeration behavior of TiO nanoparticles in ecotoxicological media. *Science of the Total Environment*, **2015**, 535, 45-53	10.2	43
1079	A Review of the Properties and Processes Determining the Fate of Engineered Nanomaterials in the Aquatic Environment. **2015**, 45, 2084-2134		145
1078	Interactions of multiwalled carbon nanotubes with algal cells: quantification of association, visualization of uptake, and measurement of alterations in the composition of cells. *Environmental Pollution*, **2015**, 196, 431-9	9.3	49
1077	Implications of Nanotechnology on Plant Productivity and Its Rhizospheric Environment. **2015**, 37-53		4
1076	Uptake and accumulation of bulk and nanosized cerium oxide particles and ionic cerium by radish (Raphanus sativus L.). **2015**, 63, 382-90		77
1075	Comparative effects of dissolved copper and copper oxide nanoparticle exposure to the sea anemone, Exaiptasia pallida. **2015**, 160, 205-13		28
1074	Effects of engineered iron nanoparticles on the bryophyte, Physcomitrella patens (Hedw.) Bruch & Schimp, after foliar exposure. **2015**, 113, 499-505		25
1073	Response of aerobic granular sludge to the long-term presence to nanosilver in sequencing batch reactors: reactor performance, sludge property, microbial activity and community. *Science of the Total Environment*, **2015**, 506-507, 226-33	10.2	37
1072	Titanium Dioxide Nanoparticle Removal in Primary Prefiltration Stages of Water Treatment: Role of Coating, Natural Organic Matter, Source Water, and Solution Chemistry. **2015**, 32, 292-300		24
1071	Uptake, effects, and regeneration of barley plants exposed to gold nanoparticles. **2015**, 22, 8549-58		59
1070	Fate of engineered nanoparticles: Implications in the environment. **2015**, 287, 64-78		153
1069	Safety issues of silica nanomaterials in the frame of industrial use. **2015**, 157-176		

1068	Effects of pH and natural organic matter (NOM) on the adsorptive removal of CuO nanoparticles by periphyton. **2015**, 22, 7696-704		22
1067	Concentration-dependent effect of photoluminescent carbon dots on the microbial activity of the soil studied by combination methods. **2015**, 39, 857-63		7
1066	Exploring controls on the fate of PVP-capped silver nanoparticles in primary wastewater treatment. **2015**, 2, 177-190		10
1065	A Comparing Study on Copper Adsorption on Nanoscale Carbon Black Modified by Different Kinds of Acid. **2015**, 14, 1460024		2
1064	Natural colloidal P and its contribution to plant P uptake. **2015**, 49, 3427-34		34
1063	The nanoparticle biomolecule corona: lessons learned - challenge accepted?. **2015**, 44, 6094-121		427
1062	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. **2015**, 49, 10642-50		76
1061	Effect of AlCl3 concentration on nanoparticle removal by coagulation. **2015**, 38, 103-9		19
1060	The effect of electrolytes on the aggregation kinetics of three different ZnO nanoparticles in water. *Science of the Total Environment*, **2015**, 530-531, 183-190	10.2	37
1059	Surface interactions and degradation of a fluoroquinolone antibiotic in the dark in aqueous TiO2 suspensions. *Science of the Total Environment*, **2015**, 532, 398-403	10.2	20
1058	Hematological and biochemical investigations on the effect of vitamin E and C on Oreochromis niloticus exposed to zinc oxide nanoparticles. **2015**, 22, 556-63		56
1057	In Response: Measurement science challenges that complicate the assessment of the potential ecotoxicological risks of carbon nanomaterials--A governmental perspective. **2015**, 34, 955-7		1
1056	Methodological issues about techniques for the spiking of standard OECD soil with nanoparticles: evidence of different behaviours. **2015**, 17, 1		7
1055	Nanostructured materials for protection and reinforcement of timber structures: A review and future challenges. **2015**, 97, 119-130		28
1054	Transport of TiO2 nanoparticles in soil in the presence of surfactants. *Science of the Total Environment*, **2015**, 527-528, 420-8	10.2	36
1053	Asymmetric Flow-Field Flow Fractionation Hyphenated ICP-MS as an Alternative to Cloud Point Extraction for Quantification of Silver Nanoparticles and Silver Speciation: Application for Nanoparticles with a Protein Corona. **2015**, 87, 7395-401		48
1052	A novel drug delivery of 5-fluorouracil device based on TiO2/ZnS nanotubes. **2015**, 56, 260-8		28
1051	Effects of water quality parameters on agglomeration and dissolution of copper oxide nanoparticles (CuO-NPs) using a central composite circumscribed design. *Science of the Total Environment*, **2015**, 521-522, 183-90	10.2	37

1050	Transport of carboxyl-functionalized carbon black nanoparticles in saturated porous media: Column experiments and model analyses. **2015**, 177-178, 194-205		13
1049	Research highlights: detecting, characterizing and quantifying the presence and impact of carbon nanomaterials in environmental systems. **2015**, 2, 308-311		3
1048	Time-dependent effect of graphene on the structure, abundance, and function of the soil bacterial community. **2015**, 297, 286-94		55
1047	Iron oxide nanoparticles induced alterations in haematological, biochemical and ionoregulatory responses of an Indian major carp Labeo rohita. **2015**, 17, 1		20
1046	Synthesis, characterization and biocompatibility of silver nanoparticles synthesized from Nigella sativa leaf extract in comparison with chemical silver nanoparticles. **2015**, 120, 400-8		142
1045	Proteomic study on the effects of silver nanoparticles on soybean under flooding stress. **2015**, 122, 100-18		76
1044	Impact of manufactured TiO2 nanoparticles on planktonic and sessile bacterial communities. *Environmental Pollution*, **2015**, 202, 196-204	9.3	29
1043	Fate of fluorescent core-shell silica nanoparticles during simulated secondary wastewater treatment. **2015**, 77, 170-178		13
1042	Characterization of Zinc Oxide Nano Particles and Their Effect on Growth of Maize (Zea mays L.) Plant. **2015**, 38, 1505-1515		49
1041	Abiotic soil changes induced by engineered nanomaterials: A critical review. **2015**, 181, 3-16		24
1040	Fenton regeneration of humic acid-spent carbon nanotubes. **2015**, 54, 2490-2495		13
1039	Multiwalled carbon nanotube dispersion methods affect their aggregation, deposition, and biomarker response. **2015**, 49, 6645-53		30
1038	In Response: Applications of carbon-based nanomaterials for water treatment--A business perspective. **2015**, 34, 957-8		
1037	Impact of carbon nanomaterials on microbial activity in soil. **2015**, 86, 172-180		38
1036	Nuclear and spectrochemical techniques in developmental metal toxicology research. Whole-body elemental composition of Xenopus laevis larvae. **2015**, 303, 2127-2134		3
1035	Cytotoxicity of Au, ZnO and SiO□NPs using in vitro assays with mussel hemocytes and gill cells: Relevance of size, shape and additives. **2016**, 10, 185-93		43
1034	Graphene oxide regulates the bacterial community and exhibits property changes in soil. **2015**, 5, 27009-27017		44
1033	MITIGATION OF Cu(II) PHYTOTOXICITY TO RICE (ORYZA SATIVA) IN THE PRESENCE OF TiO□AND CeO□NANOPARTICLES COMBINED WITH HUMIC ACID. **2015**, 34, 1588-96		30

1032	Characterisation and determination of fullerenes: A critical review. **2015**, 882, 1-21	104
1031	Fullerene-associated phenanthrene contributes to bioaccumulation but is not toxic to fish. **2015**, 34, 1023-30	15
1030	Multiphase chemistry at the atmosphere-biosphere interface influencing climate and public health in the anthropocene. **2015**, 115, 4440-75	326
1029	Electrochemical response of nitrite and nitric oxide on graphene oxide nanoparticles doped with Prussian blue (PB) and Fe2O3 nanoparticles. **2015**, 5, 27759-27774	32
1028	Review of nanomaterial aging and transformations through the life cycle of nano-enhanced products. **2015**, 77, 132-47	277
1027	Morphological impact of zinc oxide particles on the antibacterial activity and human epithelia toxicity. **2015**, 52, 204-11	23
1026	Titanium dioxide nanoparticles increase plasma glucose via reactive oxygen species-induced insulin resistance in mice. **2015**, 35, 1122-32	41
1025	Nanotechnologies in Food and Agriculture. **2015**,	27
1024	Sorption mechanisms of organic compounds by carbonaceous materials: site energy distribution consideration. **2015**, 49, 4894-902	61
1023	Spatial and temporal variability of incidental nanoparticles in indoor workplaces: impact on the characterization of point source exposures. **2015**, 17, 98-109	6
1022	Impact of environmental conditions on aggregation kinetics of hematite and goethite nanoparticles. **2015**, 17, 1	27
1021	Cytotoxicity of graphene oxide nanoparticles on plant growth promoting rhizobacteria. **2015**, 32, 282-291	27
1020	Effective Potentiality of Synthesised CdS Nanoparticles in Inducing Genetic Variation on Macrotyloma uniflorum (Lam.) Verdc.. **2015**, 5, 171-180	9
1019	Heteroaggregation of bare silver nanoparticles with clay minerals. **2015**, 2, 528-540	19
1018	Ecotoxicological impacts of zinc metal in comparison to its nanoparticles in Nile tilapia; Oreochromis niloticus. **2015**, 72, 113-125	26
1017	Transport and Retention of Polyvinylpyrrolidone-Coated Silver Nanoparticles in Natural Soils. **2015**, 14, vzj2015.01.0007	44
1016	Fundamental Characteristics and Their Influence on Fate and Behavior of Nanomaterials in Environments. **2015**, 1-26	2
1015	Behavior and Fate of Natural and Engineered Nanomaterials in Constructed Environments. **2015**, 331-356	

1014	Occurrence of Nanomaterials in the Environment. **2015**, 179-218	1
1013	Behavior and Fate of Natural and Engineered Nanomaterials in Atmosphere. **2015**, 265-290	1
1012	Nano-Ecotoxicology of Natural and Engineered Nanomaterials for Animals and Humans. **2015**, 421-437	6
1011	Enhanced stability and dissolution of CuO nanoparticles by extracellular polymeric substances in aqueous environment. **2015**, 17, 1	43
1010	Heteroaggregation of nanoparticles with biocolloids and geocolloids. **2015**, 226, 24-36	116
1009	Impact of Nanoparticle Silver in a Sequencing Batch Reactor Removing Phosphorus and Ammonia. **2015**, 141, 06015001	2
1008	Nanotechnology to Aid Chemical and Biological Defense. **2015**,	1
1007	In Response: Views from research/academia on the challenges to detecting carbon-based nanomaterials in environmental matrices--An academic perspective. **2015**, 34, 954-5	1
1006	An Overview on Fate, Transport, and Behavior of Nanomaterials in the Environment. **2015**, 219-248	
1005	Behavior and Fate of Natural and Engineered Nanomaterials in Sediments. **2015**, 315-329	
1004	Nano-Ecotoxicology of Natural and Engineered Nanomaterials for Microorganisms. **2015**, 439-467	1
1003	Nano-Ecotoxicology of Natural and Engineered Nanoparticles for Plants. **2015**, 469-485	2
1002	Nano-Ecotoxicology of Natural´and Engineered Nanomaterials for Different´Ecosystems. **2015**, 487-511	4
1001	Use of porous cellulose microcapsules for water treatment. **2015**, 5, 83286-83294	12
1000	Nanoscale-alumina induces oxidative stress and accelerates amyloid beta (A□production in ICR female mice. **2015**, 7, 15225-37	48
999	A comparative analysis of a TiO2 nanoparticle dispersion in various biological extracts. **2015**, 5, 64421-64432	11
998	Proteomic analysis of flooded soybean root exposed to aluminum oxide nanoparticles. **2015**, 128, 280-97	65
997	Removal of micropollutants by ozone based processes. **2015**, 94, 78-84	32

996	Toxicological effects of silver nanoparticles. **2015**, 40, 729-32		43
995	Investigation of graphene phytotoxicity in the germination stage of wheat and barley. **2015**,		1
994	Neutral red cytotoxicity assays for assessing in vivo carbon nanotube ecotoxicity in mussels--Comparing microscope and microplate methods. **2015**, 101, 903-7		7
993	Surface charging behavior of nanoparticles by considering site distribution and density, dielectric constant and pH changes--a Monte Carlo approach. **2015**, 17, 4346-53		22
992	Altered behavior, physiology, and metabolism in fish exposed to polystyrene nanoparticles. **2015**, 49, 553-61		292
991	Effect of CuO nanoparticles on the production and composition of extracellular polymeric substances and physicochemical stability of activated sludge flocs. **2015**, 176, 65-70		111
990	Environmental life cycle assessment of nanosilver-enabled bandages. **2015**, 49, 361-8		70
989	Natural Nanoparticles: Implications for Environment and Human Health. **2015**, 45, 861-904		56
988	Effect of carbon nanotubes on Cd(II) adsorption by sediments. **2015**, 264, 645-653		64
987	Biological and chemical contaminants as drivers of change in the Great Lakes–St. Lawrence river basin. **2015**, 41, 119-130		21
986	In vivo analysis of the size- and time-dependent uptake of NaYF:Yb,Er upconversion nanocrystals by pumpkin seedlings. **2015**, 3, 144-150		22
985	SEM analysis of particle size during conventional treatment of CMP process wastewater. *Science of the Total Environment*, **2015**, 508, 1-6	10.2	14
984	Environmentally relevant approaches to assess nanoparticles ecotoxicity: a review. **2015**, 283, 764-77		166
983	Impact of TiO_2 and ZnO nanoparticles at predicted environmentally relevant concentrations on ammonia-oxidizing bacteria cultures under ammonia oxidation. **2015**, 22, 2891-9		20
982	Oxidative stress and histological changes following exposure to diamond nanoparticles in the freshwater Asian clam Corbicula fluminea (M□ller, 1774). **2015**, 284, 27-34		64
981	Toxic potential of iron oxide, CdS/Ag_2S composite, CdS and Ag_2S NPs on a fresh water alga Mougeotia sp. **2015**, 125, 284-90		19
980	Evaluation of alpha and gamma aluminum oxide nanoparticle accumulation, toxicity, and depuration in Artemia salina larvae. **2015**, 30, 109-18		38
979	Characterization of carbon nanotubes and analytical methods for their determination in environmental and biological samples: a review. **2015**, 853, 77-94		83

978	Engineered nanoparticles and organic matter: a review of the state-of-the-art. **2015**, 119, 608-619	230
977	Metal nanoparticles: The protective nanoshield against virus infection. **2016**, 42, 46-56	161
976	Nanotechnology for antimicrobial textiles. **2016**, 87-97	6
975	Effects of Ingested Multi-Walled Carbon Nanotubes in Poecilia reticulata: Localization and Physiological Responses. **2016**, 06,	2
974	Zebrafish as an in vivo Vertebrate Model for Nano EHS Studies. **2016**, 01,	2
973	. **2016**,	5
972	Nanomaterials in the Environment: Sources, Fate, Transport, and Ecotoxicology. **2016**, 311-326	3
971	Engineered nanomaterials and crops: physiology and growth of barley as affected by nanoscale cerium oxide. **2016**, 11, 149	2
970	Engineered nanoparticles induce cell apoptosis: potential for cancer therapy. **2016**, 7, 40882-40903	52
969	. **2016**,	20
968	Application of Super-Amphiphilic Silica-Nanogel Composites for Fast Removal of Water Pollutants. **2016**, 21,	9
967	Influence of Yeast Extract on the Cytotoxicity of PSL Nanoparticles and Adhesion Force Measurement between a Nanoparticle and a Cell Using AFM. **2016**, 53, 762-767	1
966	Nanofibrous smart bandages for wound care. **2016**, 483-499	13
965	Exploring medium-term impact of oxide nanoparticles on soil microbial activity by isothermal microcalorimetry and urease assay. **2016**, 35, 395-403	3
964	Exploring the effect of silver nanoparticle size and medium composition on uptake into pulmonary epithelial 16HBE14o-cells. **2016**, 18, 182	18
963	Effects of nanoparticles in fresh waters: risks, mechanisms and interactions. **2016**, 61, 2185-2196	71
962	Framework to Evaluate Exposure Relevance and Data Needs for Risk Assessment of Nanomaterials using in Vitro Testing Strategies. **2016**, 36, 1551-63	9
961	Long-term exposure to gold nanoparticles accelerates larval metamorphosis without affecting mass in wood frogs (Lithobates sylvaticus) at environmentally relevant concentrations. **2016**, 35, 2304-10	12

960	Humic acid disaggregation with/of gold nanoparticles: Effects of nanoparticle size and pH. **2016**, 6, 54-63		13
959	Nanoparticles in Environment and Health Effect. **2016**, 319-337		2
958	Influence of siloxane on the transport of ZnO nanoparticles from different release pathways in saturated sand. **2016**, 6, 100494-100503		1
957	Assessing Exposure of Fullerenes/Functionalized Fullerenes from Water: Risk, Challenges, and Knowledge Gaps. **2016**, 8, 177-192		2
956	Phytotoxicity of graphene in tomatoes and bean. **2016**,		0
955	The influence of Citrate or PEG coating on silver nanoparticle toxicity to a human keratinocyte cell line. **2016**, 249, 29-41		50
954	Release of (14)C-labelled carbon nanotubes from polycarbonate composites. *Environmental Pollution*, **2016**, 215, 356-365	9.3	21
953	Laboratory Investigation of Antibiotic Interactions with Fe2O3 Nanoparticles in Water. **2016**, 142, 04016015		7
952	Effect of bacteria on the transport and deposition of multi-walled carbon nanotubes in saturated porous media. *Environmental Pollution*, **2016**, 213, 895-903	9.3	17
951	Impact of carbon nanotubes on the mobility of sulfonamide antibiotics in sediments in the Xiangjiang River. **2016**, 6, 16941-16951		11
950	Ecotoxicity of titanium silicon oxide (TiSiO4) nanomaterial for terrestrial plants and soil invertebrate species. **2016**, 129, 291-301		29
949	Titanium dioxide nanoparticles (100-1000´mg/l) can affect vitamin E response in Arabidopsis thaliana. *Environmental Pollution*, **2016**, 213, 957-965	9.3	41
948	Organic matter and iron oxide nanoparticles: aggregation, interactions, and reactivity. **2016**, 3, 494-505		84
947	Iron-based magnetic nanomaterials and their environmental applications. **2016**, 46, 783-826		43
946	Textile dye degradation using nano zero valent iron: A review. **2016**, 177, 341-55		204
945	Use of nanoscale zero-valent iron and nanoscale hydrated lime to improve geotechnical properties of gas oil contaminated clay: a comparative study. **2016**, 75, 1		18
944	The bioavailability and toxicity of ZnO and Ni nanoparticles and their bulk counterparts in different sediments. **2016**, 16, 1798-1808		17
943	The different response mechanisms of Wolffia globosa: Light-induced silver nanoparticle toxicity. **2016**, 176, 97-105		40

942	Ultrastructure of the gut epithelium in Acheta domesticus after long-term exposure to nanodiamonds supplied with food. **2016**, 45, 253-64		21
941	Carbon nanomaterials: production, impact on plant development, agricultural and environmental applications. **2016**, 3,		214
940	Chloramination of graphene oxide significantly affects its transport properties in saturated porous media. **2016**, 3-4, 90-95		8
939	Plant Nanotechnology. **2016**,		17
938	Physical and Chemical Nature of Nanoparticles. **2016**, 15-27		10
937	Investigation of the Explosion Behaviour Affected by the Changes of Particle Size. **2016**, 148, 1156-1161		5
936	Adsorption of Organic Compounds by Engineered Nanoparticles. **2016**, 160-181		
935	Emission, Transformation, and Fate of Nanoparticles in the Atmosphere. **2016**, 205-223		2
934	Properties, Sources, Pathways, and Fate of Nanoparticles in the Environment. **2016**, 93-117		5
933	Kelvin Probe: Kelvin Probe Force Microscopy as a Tool for the Characterization of Nanomaterials. **2016**, 418-423		
932	Effects of CeO nanoparticles on sludge aggregation and the role of extracellular polymeric substances - Explanation based on extended DLVO. **2016**, 151, 698-705		33
931	Fate of TiO2 nanoparticles entering sewage treatment plants and bioaccumulation in fish in the receiving streams. **2016**, 3-4, 96-103		49
930	Differential antimicrobial activity of silver nanoparticles to bacteria Bacillus subtilis and Escherichia coli, and toxicity to crop plant Zea mays and beneficial B. subtilis-inoculated Z. mays. **2016**, 18, 1		12
929	Engineered Gold Nanoparticles and Plant Adaptation Potential. **2016**, 11, 400		88
928	Inflammatory responses of a human keratinocyte cell line to 10 nm citrate- and PEG-coated silver nanoparticles. **2016**, 18, 1		6
927	Current trends and challenges in sample preparation for metallic nanoparticles analysis in daily products and environmental samples: A review. **2016**, 125, 66-96		58
926	Engineered Nanoparticle Release, Exposure Pathway and Dose, Measures and Measuring Techniques for Nanoparticle Exposure in Air. **2016**, 115-150		2
925	Co-transport of Pb(2+) and TiO2 nanoparticles in repacked homogeneous soil columns under saturation condition: Effect of ionic strength and fulvic acid. *Science of the Total Environment*, **2016**, 571, 471-8	10.2	29

924	Transport phenomena of nanoparticles in plants and animals/humans. **2016**, 151, 233-243		47
923	Printed Sensors and Sensing Systems. **2016**, 379-420		1
922	A review on multifaceted application of nanoparticles in the field of bioremediation of petroleum hydrocarbons. **2016**, 97, 98-105		49
921	Nano-TiO affects Cu speciation, extracellular enzyme activity, and bacterial communities in sediments. *Environmental Pollution*, **2016**, 218, 77-85	9.3	15
920	Nanoparticle Toxicity in Water, Soil, Microbes, Plant and Animals. **2016**, 277-309		4
919	Influence of ZrO2, SiO2, Al2O3 and TiO2 nanoparticles on maize seed germination under different growth conditions. **2016**, 10, 171-7		38
918	Nanoparticles, Soils, Plants and Sustainable Agriculture. **2016**, 283-312		36
917	Nanofertilisers, Nanopesticides and Nanosensors in Agriculture. **2016**, 247-282		41
916	Proteomic analysis of soybean root exposed to varying sizes of silver nanoparticles under flooding stress. **2016**, 148, 113-25		34
915	Nanoscience in Food and Agriculture 1. **2016**,		11
914	Nanoparticles in Water, Soils and Agriculture. **2016**, 311-358		16
913	Effects of surface coating character and interactions with natural organic matter on the colloidal stability of gold nanoparticles. **2016**, 3, 1144-1152		23
912	Gel-free/label-free proteomic analysis of wheat shoot in stress tolerant varieties under iron nanoparticles exposure. **2016**, 1864, 1586-98		25
911	Mycoextraction of radiolabeled cesium and strontium by Pleurotus eryngii mycelia in the presence of alumina nanoparticles: Sorption and accumulation studies. **2016**, 164, 190-196		8
910	Review of Nanocoatings for Building Application. **2016**, 145, 1541-1548		25
909	Trophic transfer of metal-based nanoparticles in aquatic environments: a review and recommendations for future research focus. **2016**, 3, 966-981		67
908	Release and toxicity comparison between industrial- and sunscreen-derived nano-ZnO particles. **2016**, 13, 2485-2494		8
907	Changes of primary and secondary metabolites in barley plants exposed to CdO nanoparticles. *Environmental Pollution*, **2016**, 218, 207-218	9.3	78

906	Ingestion of Plastics by Marine Organisms. **2016**, 235-266		24
905	Governing factors affecting the impacts of silver nanoparticles on wastewater treatment. *Science of the Total Environment*, **2016**, 572, 852-873	10.2	40
904	The transfer of titanium dioxide nanoparticles from the host plant to butterfly larvae through a food chain. **2016**, 6, 23819		20
903	Markers for toxicity to HepG2 exposed to cadmium sulphide quantum dots; damage to mitochondria. **2016**, 374, 18-28		37
902	Dissolved Organic Matter or Salts Change the Bioavailability Processes and Toxicity of the Nanoscale Tetravalent Lead Corrosion Product PbO to Medaka Fish. **2016**, 50, 11292-11301		10
901	A review of printed passive electronic components through fully additive manufacturing methods. **2016**, 11, 271-288		79
900	Sorption Behaviour of Trichlorobenzenes and Polycyclic Aromatic Hydrocarbons in the Absence or Presence of Carbon Nanotubes in the Aquatic Environment. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	4
899	Emerging nanomaterials for the application of selenium removal for wastewater treatment. **2016**, 3, 982-996		66
898	Effect of Surface and Salt Properties on the Ion Distribution around Spherical Nanoparticles: Monte Carlo Simulations. **2016**, 120, 7988-97		14
897	Antioxidant enzyme activities as biomarkers of fluvial biofilm to ZnO NPs ecotoxicity and the Integrated Biomarker Responses (IBR) assessment. **2016**, 133, 10-7		40
896	Transport in the Environment and Ecotoxicity of Carbon Nanomaterials. **2016**, 487-514		
895	Toxicological effects of multi-walled carbon nanotubes on Saccharomyces cerevisiae: The uptake kinetics and mechanisms and the toxic responses. **2016**, 318, 650-662		45
894	Effects of metal-bearing nanoparticles (Ag, Au, CdS, ZnO, SiO2) on developing zebrafish embryos. **2016**, 27, 325102		33
893	A study on Effects of pH, Adsorbent Dosage, Time, Initial Concentration and Adsorption Isotherm Study for the Removal of Hexavalent Chromium (Cr (VI)) from Wastewater by Magnetite Nanoparticles. **2016**, 24, 585-594		130
892	Nanotechnology in Soil-Plant System. **2016**, 329-348		4
891	Effects of Nanoparticles on Plant Growth and Development. **2016**, 95-118		22
890	Heavy Duty Diesel Exhaust Particles during Engine Motoring Formed by Lube Oil Consumption. **2016**, 50, 12504-12511		18
889	The Road to Sustainable Nanotechnology: Challenges, Progress and Opportunities. **2016**, 4, 5907-5914		63

888	Uptake of silver nanoparticles by monocytic THP-1 cells depends on particle size and presence of serum proteins. **2016**, 18, 286		38
887	Nanoparticles cyto and genotoxicity in plants: Mechanisms and abnormalities. **2016**, 6, 184-193		30
886	Synthesis Techniques and Evaluation Methods of Nanoparticles as Fungicides. **2016**, 141-168		
885	Single and combined effects of aluminum (AlO) and zinc (ZnO) oxide nanoparticles in a freshwater fish, Carassius auratus. **2016**, 23, 24578-24591		39
884	Nanoassisted Functional Modulation of Enzymes: Concept and Applications. **2016**, 349-383		
883	Influences of water properties on the aggregation and deposition of engineered titanium dioxide nanoparticles in natural waters. *Environmental Pollution*, **2016**, 219, 132-138	9.3	34
882	Agri-nanotechniques for Plant Availability of Nutrients. **2016**, 263-303		17
881	Biogeochemical barriers for soil and groundwater bioremediation. **2016**, 71, 89-100		3
880	Role of Core□Shell Nanocomposites in Heavy Metal Removal. **2016**, 289-309		1
879	The use of carbon nanomaterials for removing natural organic matter in drinking water sources by a combined coagulation process. **2016**, 6, 184798041666368		6
878	Effect of alginate on the aggregation kinetics of copper oxide nanoparticles (CuO NPs): bridging interaction and hetero-aggregation induced by Ca(2.). **2016**, 23, 11611-9		36
877	Aqueous photoproduction of Au nanoparticles by natural organic matter: effect of NaBH4 reduction. **2016**, 3, 707-714		16
876	Acute toxicity of quantum dots on late pregnancy mice: Effects of nanoscale size and surface coating. **2016**, 318, 61-69		41
875	Coupling Effects of Flow Velocity and Ionic Strength on the Clogging of a Saturated Porous Medium. **2016**, 112, 265-282		9
874	Impact of water composition on association of Ag and CeO□nanoparticles with aquatic macrophyte Elodea canadensis. **2016**, 23, 5277-87		12
873	Engineered nanomaterials as a potential metapedogenetic factor: A perspective. **2016**, 146, 30-37		1
872	Quantitative proteomic analysis of post-flooding recovery in soybean root exposed to aluminum oxide nanoparticles. **2016**, 143, 136-150		26
871	Polyvinyl polypyrrolidone attenuates genotoxicity of silver nanoparticles synthesized via green route, tested in Lathyrus sativus L. root bioassay. **2016**, 806, 11-23		4

870	Cosmetic Nanomaterials in Wastewater: Titanium Dioxide and Fullerenes. **2016**, 20,		10
869	A multifaceted aggregation and toxicity assessment study of sol□gel-based TiO2 nanoparticles during textile wastewater treatment. **2016**, 57, 4966-4973		6
868	Antioxidant defenses and histological changes in Carassius auratus after combined exposure to zinc and three multi-walled carbon nanotubes. **2016**, 125, 61-71		18
867	Release of nanomaterials from solid nanocomposites and consumer exposure assessment - a forward-looking review. **2016**, 10, 641-53		40
866	Effects of titanium dioxide nanoparticle exposure in Mytilus galloprovincialis gills and digestive gland. **2016**, 10, 807-17		28
865	Nanostructured materials functionalized with metal complexes: In search of alternatives for administering anticancer metallodrugs. **2016**, 312, 67-98		146
864	Phytosynthesis of Metal and Metal-Oxide Nanoparticles □Technological Concepts and Their Biomedical Applications. **2016**, 51-80		1
863	Effect of cobalt ferrite (CoFe2O4) nanoparticles on the growth and development of Lycopersicon lycopersicum (tomato plants). *Science of the Total Environment*, **2016**, 550, 45-52	10.2	76
862	Direct surface visualization of biofilms with high spin coordination clusters using Magnetic Resonance Imaging. **2016**, 31, 167-177		11
861	Ozonation as pre-treatment of activated sludge process of a wastewater containing benzalkonium chloride and NiO nanoparticles. **2016**, 283, 740-749		34
860	Silver nanoparticles impact the functional role of Gammarus roeseli (Crustacea Amphipoda). *Environmental Pollution*, **2016**, 208, 608-18	9.3	22
859	Pure anatase and rutile´+´anatase nanoparticles differently affect wheat seedlings. **2016**, 151, 68-75		21
858	Experimental studies on nanomaterials for soil improvement: a review. **2016**, 75, 1		46
857	Effect of light-active nanomaterials on the behavior of cadmium(II) in the presence of humic acid: the case of titanium dioxide. **2016**, 57, 23975-23986		1
856	Effects of water chemistry on the destabilization and sedimentation of commercial TiO2 nanoparticles: Role of double-layer compression and charge neutralization. **2016**, 151, 145-51		24
855	Adsorption of silver nanoparticles from aqueous solution on copper-based metal organic frameworks (HKUST-1). **2016**, 150, 659-666		21
854	Effectivity of copper and cadmium sulphide nanoparticles in mitotic and meiotic cells of Nigella sativa L. (black cumin) □can nanoparticles act as mutagenic agents?. **2016**, 11, 823-839		23
853	Environmental behavior of engineered nanomaterials in porous media: a review. **2016**, 309, 133-50		76

852	Polystyrene nanoparticles internalization in human gastric adenocarcinoma cells. **2016**, 31, 126-36		118
851	Multimethod approach for the detection and characterisation of food-grade synthetic amorphous silica nanoparticles. **2016**, 1432, 92-100		32
850	Metallic nickel nanoparticles and their effect on the embryonic development of the sea urchin Paracentrotus lividus. *Environmental Pollution*, **2016**, 212, 224-229	9.3	33
849	A critical review of engineered nanomaterial release data: Are current data useful for material flow modeling?. *Environmental Pollution*, **2016**, 213, 502-517	9.3	79
848	Size-dependent cytotoxicity of copper oxide nanoparticles in lung epithelial cells. **2016**, 3, 365-374		57
847	Biological effects of agglomerated multi-walled carbon nanotubes. **2016**, 142, 65-73		12
846	New insights into ROS dynamics: a multi-layered microfluidic chip for ecotoxicological studies on aquatic microorganisms. **2016**, 10, 1041-50		13
845	Toxicity of heavy metals and metal-containing nanoparticles on plants. **2016**, 1864, 932-44		116
844	Response of sludge fermentation liquid and microbial community to nano zero-valent iron exposure in a mesophilic anaerobic digestion system. **2016**, 6, 24236-24244		33
843	Measurement of metal bioaccessibility in vegetables to improve human exposure assessments: field study of soil-plant-atmosphere transfers in urban areas, South China. **2016**, 38, 1283-1301		75
842	Enhanced uptake of antibiotic resistance genes in the presence of nanoalumina. **2016**, 10, 1051-60		44
841	Multiple spectroscopic studies on the interaction of BSA with pristine CNTs and their toxicity against Donax faba. **2016**, 170, 141-149		17
840	The effect and fate of water-soluble carbon nanodots in maize (Zea mays L.). **2016**, 10, 818-28		38
839	Root water transport of Helianthus annuus L. under iron oxide nanoparticle exposure. **2016**, 23, 1732-41		111
838	Frontier Discoveries and Innovations in Interdisciplinary Microbiology. **2016**,		3
837	Algae as crucial organisms in advancing nanotechnology: a systematic review. **2016**, 28, 1759-1774		124
836	Different Analytical Approaches for the Determination of Presence of Engineered Nanomaterials in Natural Environments. **2016**, 20,		1
835	Exploring methods for compositional and particle size analysis of noble metal nanoparticles in Daphnia magna. **2016**, 147, 289-95		10

834	Nano-sized polystyrene affects feeding, behavior and physiology of brine shrimp Artemia franciscana larvae. **2016**, 123, 18-25		183
833	A review of exposure and toxicological aspects of carbon nanotubes, and as additives to fire retardants in polymers. **2016**, 46, 74-95		10
832	Comparative plasma proteomic studies of pulmonary TiO2 nanoparticle exposure in rats using liquid chromatography tandem mass spectrometry. **2016**, 130, 85-93		11
831	Engineered Nanoparticles Associated Metabolomics. **2016**, 20,		2
830	Photocatalytic degradation of Tire Cord manufacturing wastewater using an immobilized nanoTiO2 photocatalytic reactor. **2016**, 57, 916-932		2
829	Toxicological assessment of third generation (G3) poly (amidoamine) dendrimers using the Allium cepa test. *Science of the Total Environment*, **2016**, 563-564, 899-903	10.2	11
828	Effects of Engineered Nanomaterials Released into the Atmosphere. **2016**, 20,		6
827	Accumulation of zinc, copper, or cerium in carrot (Daucus carota) exposed to metal oxide nanoparticles and metal ions. **2016**, 3, 114-126		109
826	Determination of TiO2 and AgTiO2 Nanoparticles in Artemia salina: Toxicity, Morphological Changes, Uptake and Depuration. **2016**, 96, 36-42		26
825	Implications for Regulating Nanomaterial-Containing Wastes: Hazardous Waste or Not?. **2016**, 20,		1
824	Nanomaterials in Surface Water and Sediments: Fate and Analytical Challenges. **2016**, 20,		2
823	Evaluation and removal of emerging nanoparticle contaminants in water treatment: a review. **2016**, 57, 11221-11232		27
822	Regeneration of Carbon Nanotubes Exhausted with Humic Acid Using Electro-Fenton Technology. **2016**, 41, 155-161		25
821	Comparison of three analytical methods to measure the size of silver nanoparticles in real environmental water and wastewater samples. **2017**, 322, 95-104		25
820	Ecotoxicity of nanosized magnetite to crustacean Daphnia magna and duckweed Lemna minor. **2017**, 798, 141-149		20
819	Characterization and stability of TiO2 nanoparticles in industrial dye stuff effluent. **2017**, 38, 584-593		13
818	Effect of TiO nanoparticles on UASB biomass activity and dewatered sludge. **2017**, 38, 413-423		7
817	Role of nanomaterials in plants under challenging environments. **2017**, 110, 194-209		220

816	Jointed toxicity of TiO NPs and Cd to rice seedlings: NPs alleviated Cd toxicity and Cd promoted NPs uptake. **2017**, 110, 82-93	115
815	Effects of aging and soil properties on zinc oxide nanoparticle availability and its ecotoxicological effects to the earthworm Eisenia andrei. **2017**, 36, 137-146	59
814	Simultaneous removal of nano-ZnO and Zn based on transportation character of nano-ZnO by coagulation: Enteromorpha polysaccharide compound polyaluminum chloride. **2017**, 24, 5179-5188	11
813	Time-Dependent Toxicity Responses in Daphnia magna Exposed to CuO and ZnO Nanoparticles. **2017**, 98, 502-507	13
812	Energy requirements and life cycle assessment of production and product integration of silver, copper and zinc nanoparticles. **2017**, 148, 948-957	24
811	Physiological and biochemical responses of two keystone polychaete species: Diopatra neapolitana and Hediste diversicolor to Multi-walled carbon nanotubes. **2017**, 154, 126-138	30
810	The need for a life-cycle based aging paradigm for nanomaterials: importance of real-world test systems to identify realistic particle transformations. **2017**, 28, 072001	39
809	Does seed size and surface anatomy play role in combating phytotoxicity of nanoparticles?. **2017**, 26, 238-249	12
808	Relative Contributions of Copper Oxide Nanoparticles and Dissolved Copper to Cu Uptake Kinetics of Gulf Killifish (Fundulus grandis) Embryos. **2017**, 51, 1395-1404	34
807	Biomedical applications of nanotechnology. **2017**, 9, 79-89	199
806	Size-dependent impact of inorganic nanoparticles on sulfamethoxazole adsorption by carbon nanotubes. **2017**, 316, 160-170	35
805	Nanomaterial and Nanoparticle: Origin and Activity. **2017**, 71-112	12
804	Toxicity of combined mixtures of nanoparticles to plants. **2017**, 331, 200-209	60
803	Effects of nano-TiO2 on Chlamydomonas reinhardtii cell surface under UV, natural light conditions. **2017**, 32, 217-222	3
802	Isotope Tracers To Study the Environmental Fate and Bioaccumulation of Metal-Containing Engineered Nanoparticles: Techniques and Applications. **2017**, 117, 4462-4487	54
801	Core-Shell Nanoparticle-Enhanced Raman Spectroscopy. **2017**, 117, 5002-5069	577
800	Transport and abatement of fluorescent silica nanoparticle (SiO2 NP) in granular filtration: effect of porous media and ionic strength. **2017**, 19, 1	4
799	Surface morphology correlated with field emission properties of laser irradiated nickel. **2017**, 91, 953-965	5

798	An investigation of the deposition of ceria on silica by quartz crystal microbalance: Observations on the effect of many body interactions. **2017**, 522, 207-217		5
797	Preparation of Zeolite/Zinc Oxide Nanocomposites for toxic metals removal from water. **2017**, 7, 723-731		60
796	Application of nanoelements in plant nutrition and its impact in ecosystems. **2017**, 8, 013001		77
795	Combined ecotoxicity of binary zinc oxide and copper oxide nanoparticles to Scenedesmus obliquus. **2017**, 52, 555-560		28
794	Acute Effects of Engineered Nanoparticles on the Growth and Gas Exchange of Zea mays L.What are the Underlying Causes?. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	13
793	The influence of selected nanomaterials on microorganisms. **2017**, 148, 525-530		9
792	Effects of carbon nanotubes on phosphorus adsorption behaviors on aquatic sediments. **2017**, 142, 230-236		6
791	Transport of multi-walled carbon nanotubes stabilized by carboxymethyl cellulose and starch in saturated porous media: Influences of electrolyte, clay and humic acid. *Science of the Total Environment*, **2017**, 599-600, 188-197	10.2	18
790	A study of the effects of citrate-coated silver nanoparticles on RAW 264.7 cells using a toolbox of cytotoxic endpoints. **2017**, 19, 1		7
789	Toxicological implications of selenium nanoparticles with different coatings along with Se on Lemna minor. **2017**, 181, 655-665		27
788	Long-term toxicity of surface-charged polystyrene nanoplastics to marine planktonic species Dunaliella tertiolecta and Artemia franciscana. **2017**, 189, 159-169		188
787	Comparative studies of Al ions and AlO nanoparticles on growth and metabolism of cabbage seedlings. **2017**, 254, 1-8		25
786	Short-term exposure to gold nanoparticle suspension impairs swimming behavior in a widespread calanoid copepod. *Environmental Pollution*, **2017**, 228, 102-110	9.3	10
785	The impact of modified nano-carbon black on the earthworm Eisenia fetida under turfgrass growing conditions: Assessment of survival, biomass, and antioxidant enzymatic activities. **2017**, 338, 218-223		19
784	Toxic effects of three crystalline phases of TiO nanoparticles on extracellular polymeric substances in freshwater biofilms. **2017**, 241, 276-283		31
783	Characterization of titanium dioxide nanoparticle removal in simulated drinking water treatment processes. *Science of the Total Environment*, **2017**, 601-602, 886-894	10.2	22
782	Nanomaterials: Structural Peculiarities, Biological Effects, and Some Aspects of Application. **2017**, 161-197		
781	Stability, transport and ecosystem effects of graphene in water and soil environments. **2017**, 9, 5370-5388		56

780	Signaling pathways involved in metal-based nanomaterial toxicity towards aquatic organisms. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2017**, 196, 61-70	3.2	9
779	Effect of Clay Minerals on Transport of Surfactants Dispersed Multi-walled Carbon Nanotubes in Porous Media. **2017**, 91, 135-144		7
778	Teratogenic responses of zebrafish embryos to decabromodiphenyl ether (BDE-209) in the presence of nano-SiO particles. **2017**, 178, 449-457		17
777	Engineered Nanomaterials for Phytoremediation of Metal/Metalloid-Contaminated Soils: Implications for Plant Physiology. **2017**, 369-403		14
776	Instrumental approach toward understanding nano-pollutants. **2017**, 2, 1		12
775	Development of scalable and versatile nanomaterial libraries for nanosafety studies: polyvinylpyrrolidone (PVP) capped metal oxide nanoparticles. **2017**, 7, 3894-3906		17
774	Phytoremediation. **2017**,		11
773	Adsorption of B(□)P on carbon nanopowder affects accumulation and toxicity in zebrafish (Danio rerio) embryos. **2017**, 4, 1132-1146		14
772	Carbon nanopowder acts as a Trojan-horse for benzo(□)pyrene in Danio rerio embryos. **2017**, 11, 371-381		21
771	Smart nanosensors for pesticide detection. **2017**, 519-559		13
770	Engineered nano particles: Nature, behavior, and effect on the environment. **2017**, 196, 297-315		123
769	Distinguishing globally-driven changes from regional- and local-scale impacts: The case for long-term and broad-scale studies of recovery from pollution. **2017**, 124, 573-586		20
768	Detection and characterization of Cu-bearing particles in throughfall samples from vine leaves by DLS, AF4-MALLS (-ICP-MS) and SP-ICP-MS. **2017**, 133, 293-301		13
767	Antibacterial potential of nanocomposite-based materials □ a short review. *Nanotechnology Reviews*, **2017**, 6, 243-254	6.3	16
766	Genotoxicity of citrate-coated silver nanoparticles to human keratinocytes assessed by the comet assay and cytokinesis blocked micronucleus assay. **2017**, 24, 5039-5048		21
765	Safe-by-Design CuO Nanoparticles via Fe-Doping, Cu-O Bond Length Variation, and Biological Assessment in Cells and Zebrafish Embryos. **2017**, 11, 501-515		74
764	Effect of phosphate buffer on aggregation kinetics of citrate-coated silver nanoparticles induced by monovalent and divalent electrolytes. *Science of the Total Environment*, **2017**, 581-582, 268-276	10.2	18
763	Silver nanoparticles induced reactive oxygen species via photosynthetic energy transport imbalance in an aquatic plant. **2017**, 11, 157-167		80

762	Effects of sediment-associated CuO nanoparticles on Cu bioaccumulation and oxidative stress responses in freshwater snail Bellamya aeruginosa. *Science of the Total Environment*, **2017**, 580, 797-804	10.2	16
761	Manure amendment increases the content of nanomineral allophane in an acid arable soil. **2017**, 7, 14256		2
760	Cytogenotoxicity potentials of cocoa pod and bean-mediated green synthesized silver nanoparticles on Allium cepa cells. **2017**, 70, 366-377		16
759	Combined Computed Nanotomography and Nanoscopic X-ray Fluorescence Imaging of Cobalt Nanoparticles in Caenorhabditis elegans. **2017**, 89, 11435-11442		21
758	Biological synthesis of metallic nanoparticles: plants, animals and microbial aspects. **2017**, 2, 1		198
757	Molecular transformation of natural and anthropogenic dissolved organic matter under photo-irradiation in the presence of nano TiO. **2017**, 125, 201-208		19
756	Effects of Cd(II) on the stability of humic acid-coated nano-TiO particles in aquatic environments. **2017**, 24, 23144-23152		4
755	Impact of the Nanomaterials on Soil Bacterial Biodiversity. **2017**, 173-190		
754	Crystalline phase-dependent eco-toxicity of titania nanoparticles to freshwater biofilms. *Environmental Pollution*, **2017**, 231, 1433-1441	9.3	11
753	Brain damage and behavioural disorders in fish induced by plastic nanoparticles delivered through the food chain. **2017**, 7, 11452		281
752	Interaction of Engineered Nanoparticles with the Agri-environment. **2017**, 65, 8279-8294		48
751	Feasibility study on the differentiation between engineered and natural nanoparticles based on the elemental ratios. **2017**, 34, 3208-3213		3
750	The effect of nanohydroxyapatite on the behavior of metals in a microcosm simulating a lentic environment. **2017**, 8, 219-227		1
749	Engineered Nanoparticles in the Environments: Interactions with Microbial Systems and Microbial Activity. **2017**, 63-107		5
748	Study on the interactions of Ag nanoparticles with low molecular weight organic matter using first principles calculations. **2017**, 200, 270-279		7
747	Differential uptake of gold nanoparticles by 2 species of tadpole, the wood frog (Lithobates sylvaticus) and the bullfrog (Lithobates catesbeianus). **2017**, 36, 3351-3358		8
746	Effects of iron nanoparticles on iron-corroding bacteria. **2017**, 7, 385		4
745	Histological alterations in the hepatic tissues of AlO nanoparticles exposed freshwater fish Oreochromis mossambicus. **2017**, 44, 125-131		22

744	Regulatory relevant and reliable methods and data for determining the environmental fate of manufactured nanomaterials. **2017**, 8, 1-10		47
743	A comprehensive framework for evaluating the environmental health and safety implications of engineered nanomaterials. **2017**, 47, 767-810		42
742	Determination of dextrose in peritoneal dialysis solution by localized surface plasmon resonance technique based on silver nanoparticles formation. **2017**, 91, 1241-1247		
741	Uptake and toxicity of CuO nanoparticles to Daphnia magna varies between indirect dietary and direct waterborne exposures. **2017**, 190, 78-86		32
740	Transport and Adsorption of Nano-Colloids in Porous Media Observed by Magnetic Resonance Imaging. **2017**, 119, 403-423		5
739	The biochemical and toxicological responses of earthworm (Eisenia fetida) following exposure to nanoscale zerovalent iron in a soil system. **2017**, 24, 2507-2514		23
738	Size-dependent electronic properties of nanomaterials: How this novel class of nanodescriptors supposed to be calculated?. **2017**, 28, 635-643		27
737	Plant growth and diosgenin enhancement effect of silver nanoparticles in Fenugreek (L.). **2017**, 25, 443-447		133
736	Occurrence and Removal of Engineered Nanoparticles in Drinking Water Treatment and Wastewater Treatment Processes. **2017**, 46, 255-272		39
735	Solid lipid nanoparticles affect microbial colonization and enzymatic activity throughout the decomposition of alder leaves in freshwater microcosms. **2017**, 135, 375-380		4
734	Response of suspended sediment particle size distributions to changes in water chemistry at an Andean mountain stream confluence receiving arsenic rich acid drainage. **2017**, 31, 296-307		17
733	Toxicity of copper oxide nanoparticles on Spirodela polyrrhiza: assessing physiological parameters. **2017**, 43, 927-941		11
732	Optimal design and characterization of sulfide-modified nanoscale zerovalent iron for diclofenac removal. **2017**, 201, 211-220		113
731	Nanoparticle transport in heterogeneous porous media with particle tracking numerical methods. **2017**, 4, 87-100		5
730	Preparation of Wyoming bentonite nanoparticles. **2017**, 4, 373-381		7
729	Coating independent cytotoxicity of citrate- and PEG-coated silver nanoparticles on a human hepatoma cell line. **2017**, 51, 191-201		13
728	Environmental benignity of a pesticide in soft colloidal hydrodispersive nanometric form with improved toxic precision towards the target organisms than non-target organisms. *Science of the Total Environment*, **2017**, 579, 190-201	10.2	27
727	Impact of bio-palladium nanoparticles (bio-Pd NPs) on the activity and structure of a marine microbial community. *Environmental Pollution*, **2017**, 220, 1068-1078	9.3	17

726	A framework for health-related nanomaterial grouping. **2017**, 1861, 1478-1485		4
725	Transport of natural soil nanoparticles in saturated porous media: effects of pH and ionic strength. **2017**, 29, 186-196		12
724	Bionanocomposites for Food Packaging Applications. **2017**, 363-379		24
723	Efficacy of Different Nanoparticles in Mitigating Gaseous Emissions from Liquid Dairy Manure Stored Under Anaerobic Condition. **2017**,		
722	NANOPARTICLES MEDIATED PHENOTYPIC MUTATION IN INDIGOFERA TINCTORIA L. (FAMILY: FABACEAE). **2017**, 8, 290-295		
721	Parameters for Fabricating Nano-Au Colloids through the Electric Spark Discharge Method with Micro-Electrical Discharge Machining. **2017**, 7,		16
720	Engineered Nickel Oxide Nanoparticle Causes Substantial Physicochemical Perturbation in Plants. **2017**, 5, 92		33
719	Green Synthesized Zinc Oxide (ZnO) Nanoparticles Induce Oxidative Stress and DNA Damage in Lathyrus sativus L. Root Bioassay System. **2017**, 6,		27
718	Zinc oxide nanoparticles induce toxic responses in human neuroblastoma SHSY5Y cells in a size-dependent manner. **2017**, 12, 8085-8099		53
717	Nano-sized Al2O3 reduces acute toxic effects of thiacloprid on the non-biting midge Chironomus riparius. **2017**, 12, e0176356		2
716	Probiotics as a Tool to Biosynthesize Metallic Nanoparticles: Research Reports and Patents Survey. **2017**, 11, 5-18		6
715	Mechanistic insight into the impact of nanomaterials on asthma and allergic airway disease. **2017**, 14, 45		28
714	Effects of the silica nanoparticles (NPSiO2) on the stabilization and transport of hazardous nanoparticle suspensions into landfill soil columns. **2017**, 70, 317-323		4
713	Current Perspective on Nanomaterial-Induced Adverse Effects: Neurotoxicity as a Case Example. **2017**, 75-98		3
712	Nanoparticles Restrictions in Environmental Cleanup. **2017**, 03,		2
711	Assessment of Crystal Morphology on Uptake, Particle Dissolution, and Toxicity of Nanoscale Titanium Dioxide on. **2017**, 2, 11-27		6
710	Transport of silver nanoparticles in intact columns of calcareous soils: The role of flow conditions and soil texture. **2018**, 322, 89-100		24
709	Titanium dioxide nanoparticle exposure reduces algal biomass and alters algal assemblage composition in wastewater effluent-dominated stream mesocosms. *Science of the Total Environment*, **2018**, 626, 357-365	10.2	22

708	Time Matters: the Toxicity of Zinc Oxide Nanoparticles to Lemna minor L. Increases with Exposure Time. *Water, Air, and Soil Pollution*, **2018**, 229, 1	2.6	9
707	Sulfate-reducing bacteria in anaerobic bioprocesses: basic properties of pure isolates, molecular quantification, and controlling strategies. **2018**, 7, 46-72		16
706	Toxicological effect of AlO nanoparticles on histoarchitecture of the freshwater fish Oreochromis mossambicus. **2018**, 59, 74-81		16
705	Potential applications of magnetic nanoparticles within separation in the petroleum industry. **2018**, 165, 488-495		59
704	Effects of metal oxide nanoparticles on nitrification in wastewater treatment systems: A systematic review. **2018**, 53, 659-668		9
703	Toxicity of lanthanum oxide nanoparticles to the fungus Moniliella wahieum Y12 isolated from biodiesel. **2018**, 199, 495-501		4
702	Dissolved organic matter and aluminum oxide nanoparticles synergistically cause cellular responses in freshwater microalgae. **2018**, 53, 651-658		10
701	Genotoxicity effects of silver nanoparticles on wheat (Triticum aestivum L.) root tip cells. **2018**, 155, 76-85		57
700	Cerium dioxide (CeO) nanoparticles decrease arsenite (As(III)) cytotoxicity to 16HBE14o- human bronchial epithelial cells. **2018**, 164, 452-458		19
699	Characterization of polymer-coated CdSe/ZnS quantum dots and investigation of their behaviour in soil solution at relevant concentration by asymmetric flow field-flow fractionation - multi angle light scattering - inductively coupled plasma - mass spectrometry. **2018**, 1028, 104-112		17
698	Short-term effects of nanoscale Zero-Valent Iron (nZVI) and hydraulic shock during high-rate anammox wastewater treatment. **2018**, 215, 248-257		15
697	Triangular gold nanoparticles modify shell characteristics and increase antioxidant enzyme activities in the clam Ruditapes decussatus. **2018**, 23, 580-588		3
696	Nanoparticles of volcanic ash as a carrier for toxic elements on the global scale. **2018**, 200, 16-22		43
695	Lysosomal deposition of copper oxide nanoparticles triggers HUVEC cells death. **2018**, 161, 228-239		51
694	Scientific rationale for the development of an OECD test guideline on engineered nanomaterial stability. **2018**, 11, 42-50		22
693	The significance of nanomaterial post-exposure responses in Daphnia magna standard acute immobilisation assay: Example with testing TiO nanoparticles. **2018**, 152, 61-66		10
692	Laser Scanning Microscopic Investigations of the Decontamination of Soot Nanoparticles from the Skin. **2018**, 31, 87-94		5
691	Nanoscale Titanium Dioxide (nTiO) Transport in Natural Sediments: Importance of Soil Organic Matter and Fe/Al Oxyhydroxides. **2018**, 52, 2668-2676		27

690	Effects of Titanium Dioxide Nanoparticles in Different Metabolic Pathways in the Freshwater Microalga Chlorella sorokiniana (Trebouxiophyceae). *Water, Air, and Soil Pollution*, **2018**, 229, 1	2.6	8
689	Surface Adsorption of Suwannee River Humic Acid on TiO Nanoparticles: A Study of pH and Particle Size. **2018**, 34, 3136-3145		59
688	No effect of selected engineered nanomaterials on reproduction and survival of the springtail Folsomia candida. **2018**, 5, 564-571		12
687	Engineered nanoparticles effects in soil-plant system: Basil (Ocimum basilicum L.) study case. **2018**, 123, 551-560		17
686	The Role of Citric Acid in the Stabilization of Nanoparticles and Colloidal Particles in the Environment: Measurement of Surface Forces between Hafnium Oxide Surfaces in the Presence of Citric Acid. **2018**, 34, 2595-2605		22
685	Nanoparticle□membrane interactions. **2018**, 13, 62-81		94
684	Poly(ether sulfone) Nanofibers Impregnated with □Cyclodextrin for Increased Micropollutant Removal from Water. **2018**, 6, 2942-2953		26
683	Inherent health and environmental risk assessment of nanostructured metal oxide production processes. **2018**, 190, 73		3
682	Quantitative Proteomic Analysis of Shoot in Stress Tolerant Wheat Varieties on Copper Nanoparticle Exposure. **2018**, 36, 326-340		10
681	Nanoparticles in the environment: where do we come from, where do we go to?. **2018**, 30, 6		383
680	Nanotoxicology assessment in complementary/alternative models. **2018**, 3, 72-80		4
679	Brownian Dynamic Study of the Aggregation Process of TiO2 Nanoparticles in Aqueous Suspensions. **2018**, 35, 996-1004		
678	Transport and retention of surfactant- and polymer-stabilized engineered silver nanoparticles in silicate-dominated aquifer material. *Environmental Pollution*, **2018**, 236, 195-207	9.3	21
677	Dietary transfer of zinc oxide particles from algae (Scenedesmus obliquus) to daphnia (Ceriodaphnia dubia). **2018**, 164, 395-404		14
676	Fabrication and characterization of iron oxide dextran composite layers. **2018**,		
675	Carbon nanoparticles influence photomorphogenesis and flowering time in Arabidopsis thaliana. **2018**, 37, 901-912		23
674	Mechanisms of toxic action of copper and copper nanoparticles in two Amazon fish species: Dwarf cichlid (Apistogramma agassizii) and cardinal tetra (Paracheirodon axelrodi). *Science of the Total Environment*, **2018**, 630, 1168-1180	10.2	40
673	Colloidal and chemical stabilities of iron oxide nanoparticles in aqueous solutions: the interplay of structural, chemical and environmental drivers. **2018**, 5, 992-1001		38

672	Identifying Challenges in Assessing Risks of Exposures of Silver Nanoparticles. **2018**, 10, 61-75		10
671	Comparative toxicity of silver nanoparticles and silver ions to Escherichia coli. **2018**, 66, 50-60		63
670	Application of nanoparticle tracking analysis for characterising the fate of engineered nanoparticles in sediment-water systems. **2018**, 64, 62-71		22
669	Effects of TiO nanoparticles on the aquatic plant Spirodela polyrrhiza: Evaluation of growth parameters, pigment contents and antioxidant enzyme activities. **2018**, 64, 130-138		59
668	Ternary NR/BR/SBR rubber blend nanocomposites. **2018**, 31, 265-287		17
667	Assessment of Waterborne Amine-Coated Silver Nanoparticle (Ag-NP)-Induced Toxicity in Labeo rohita by Histological and Hematological Profiles. **2018**, 182, 130-139		16
666	Regulation of engineered nanomaterials: current challenges, insights and future directions. **2018**, 25, 3060-3077		49
665	Effect of nanoparticles on crops and soil microbial communities. **2018**, 18, 2179-2187		94
664	Effect of graphene oxide on copper stress in Lemna minor L.: evaluating growth, biochemical responses, and nutrient uptake. **2018**, 341, 168-176		42
663	Effect of a typical antibiotic (tetracycline) on the aggregation of TiO nanoparticles in an aquatic environment. **2018**, 341, 187-197		43
662	Stability and aggregation of nanoscale titanium dioxide particle (nTiO): Effect of cation valence, humic acid, and clay colloids. **2018**, 192, 51-58		37
661	The effect of nanoparticles and humic acid on technology critical element concentrations in aqueous solutions with soil and sand. *Science of the Total Environment*, **2018**, 610-611, 1083-1091	10.2	6
660	Emerging Pollutants: Fate, Pathways, and Bioavailability. **2018**, 327-358		5
659	Ecotoxicological effects of carbon based nanomaterials in aquatic organisms. *Science of the Total Environment*, **2018**, 619-620, 328-337	10.2	103
658	Microplastics Are Contaminants of Emerging Concern in Freshwater Environments: An Overview. **2018**, 1-23		77
657	Atmospheric Reactivity of Fullerene (C60) Aerosols. **2018**, 2, 95-102		3
656	Co-exposure to titanium dioxide nanoparticles does not affect cadmium toxicity in radish seeds (Raphanus sativus). **2018**, 148, 359-366		31
655	Calcined Mg/Al layered double hydroxides as efficient adsorbents for polyhydroxy fullerenes. **2018**, 151, 66-72		10

654	Neurobehavioral assessment of rats exposed to pristine polystyrene nanoplastics upon oral exposure. **2018**, 193, 745-753	38
653	Toxic impact of nanomaterials on microbes, plants and animals. **2018**, 16, 147-160	33
652	Plant and Microbial Growth Responses to Multi-Walled Carbon Nanotubes. **2018**, 03,	2
651	The Toxicity of Silver Nanoparticles (AgNPs) to Three Freshwater Invertebrates With Different Life Strategies: Hydra vulgaris, Daphnia carinata, and Paratya australiensis. **2018**, 6,	44
650	Mechanism of sulfidation of small zinc oxide nanoparticles.. **2018**, 8, 34476-34482	14
649	Environmental transformation of natural and engineered carbon nanoparticles and implications for the fate of organic contaminants. **2018**, 5, 2500-2518	34
648	Role of graphene oxide in mitigated toxicity of heavy metal ions on .. **2018**, 8, 41358-41367	7
647	Nanotechnology and Nanomedicine: Start small, think big. **2018**, 5, 15492-15500	103
646	The Toxicity of Nanoparticles to Organisms in Freshwater. **2020**, 248, 1-80	7
645	Agricultural Nanobiotechnology. **2018**,	3
644	Effects of Nanoparticles on Germination, Growth, and Plant Crop Development. **2018**, 77-110	6
643	Nanomaterials: Toxicity, Risk Managment and Public Perception. **2018**, 283-304	2
642	Ecotoxicity of Metal Nanoparticles on Microorganisms. **2018**, 77-93	
641	Nanoparticle effect on neutrophil produced myeloperoxidase. **2018**, 13, e0191445	8
640	In vivo toxicity evaluation of biologically synthesized silver nanoparticles and gold nanoparticles on adult zebrafish: a comparative study. **2018**, 8, 441	22
639	Size- and Shape-Controlled Synthesis of Calcium Silicate Particles Enables Self-Assembly and Enhanced Mechanical and Durability Properties. **2018**, 34, 12154-12166	7
638	Dry Powder Assay Rapidly Detects Metallic Nanoparticles in Water by Measuring Surface Catalytic Reactivity. **2018**, 52, 13289-13297	10
637	Evaluation of tolerance of tubers Solanum tuberosum to silic° nanoparticles. **2018**, 25, 34559-34569	12

636	Assessment of Nanotoxicity (Cadmium Sulphide and Copper Oxide) Using Cytogenetical Parameters in Coriandrum sativum L. (Apiaceae). **2018**, 52, 299-308		12
635	Engineered silver nanoparticles in terrestrial environments: a meta-analysis shows that the overall environmental risk is small. **2018**, 5, 2531-2544		19
634	Effects of Rare Earth Oxide Nanoparticles on Plants. **2018**, 239-275		2
633	Effects of TiO2 Nanoparticles on the Neotropical Cladoceran Ceriodaphnia silvestrii by Waterborne and Dietary Routes. *Water, Air, and Soil Pollution*, **2018**, 229, 1	2.6	1
632	Application of Nano-Ag Fabricated by the Electrical Spark Discharge Method for Restraining Aspergillus Niger. **2018**, 59, 1101-1105		2
631	Cellular pathways affected by carbon nanopowder-benzo(a)pyrene complex in human skin fibroblasts identified by proteomics. **2018**, 160, 144-153		3
630	Reactive oxygen species independent genotoxicity of indium tin oxide nanoparticles triggered by intracellular degradation. **2018**, 118, 264-271		10
629	Nanomaterial-microbe cross-talk: physicochemical principles and (patho)biological consequences. **2018**, 47, 5312-5337		39
628	Gefährdung der Bodenfunktionen. **2018**, 583-686		
627	Current Trends in Pteridophyte Extracts: From Plant to Nanoparticles. **2018**, 329-357		5
626	Effects of Silver Nanoparticles on the Activities of Soil Enzymes Involved in Carbon and Nutrient Cycling. *Pedosphere*, **2018**, 28, 209-214	5	29
625	Eichhornia Crassipes as reducing agent for synthetizing Ag nanoparticles and its antimicrobial activity. **2018**, 3, 2455-2459		
624	Green zero valent iron nanoparticles dispersion through a sandy column using different injection sequences. *Science of the Total Environment*, **2018**, 637-638, 935-942	10.2	5
623	The effect of zirconium oxide nanoparticles on dehydrogenase and hydrolytic activity of activated sludge microorganisms. **2018**, 44, 00034		
622	Nanoparticle-Associated Phytotoxicity and Abiotic Stress Under Agroecosystems. **2018**, 241-268		3
621	Metal-Based Nanomaterials and Oxidative Stress in Plants: Current Aspects and Overview. **2018**, 197-227		4
620	Nanoplastics in the Aquatic Environment. **2018**, 379-399		46
619	A contribution of nanoscale particles of road-deposited sediments to the pollution of urban runoff by heavy metals. **2018**, 210, 65-75		36

618	Mechanism and Interaction of Nanoparticle-Induced Programmed Cell Death in Plants. **2018**, 175-196	3
617	Biosynthesis of Nanoparticles by Penicillium and Their Medical Applications. **2018**, 235-246	3
616	Fullerenes Influence the Toxicity of Organic Micro-Contaminants to River Biofilms. **2018**, 9, 1426	11
615	Physical and chemical characterization of natural and modified nanoclays and their ecotoxicity on a freshwater algae species (Chlamydomonas reinhardtii). **2018**, 37, 2860-2870	2
614	Nanotechnology Interaction with Environment. **2018**, 1-24	
613	Low risk posed by engineered and incidental nanoparticles in drinking water. **2018**, 13, 661-669	73
612	Silver nanoparticles with different particle sizes enhance the allelopathic effects of Canada goldenrod on the seed germination and seedling development of lettuce. **2018**, 27, 1116-1125	16
611	Nanoparticles capture on cellulose nanofiber depth filters. **2018**, 201, 482-489	8
610	The Promising Biomedical Applications of Engineered Nanomaterials. **2018**, 530-542	4
609	Recent Developments in Engineered Nanomaterials for Water Treatment and Environmental Remediation. **2018**, 849-882	9
608	The Potential Human Health and Environmental Issues of Nanomaterials. **2018**, 1049-1054	3
607	Lignin-induced growth inhibition in soybean exposed to iron oxide nanoparticles. **2018**, 211, 226-234	3
606	Synthesis, characterisation and bactericidal effect of ZnO nanoparticles via chemical and bio-assisted (in vitro plantlets and callus extract) methods: a comparative study. **2018**, 12, 604-608	10
605	Copper Nanoparticles Induced Genotoxicty, Oxidative Stress, and Changes in Superoxide Dismutase (SOD) Gene Expression in Cucumber () Plants. **2018**, 9, 872	81
604	Electrochemical Detection of Pathogenic Bacteria-Recent Strategies, Advances and Challenges. **2018**, 13, 2758-2769	44
603	Toxicology of Engineered Nanoparticles: Focus on Poly(amidoamine) Dendrimers. **2018**, 15,	39
602	Investigating the Role of Gold Nanoparticle Shape and Size in Their Toxicities to Fungi. **2018**, 15,	13
601	Nanotechnology in Crop Protection. **2018**, 345-391	7

600	Phytotoxic effects of silver nanoparticles and silver ions to Arabidopsis thaliana as revealed by analysis of molecular responses and of metabolic pathways. *Science of the Total Environment*, **2018**, 644, 1070-1079	10.2	59
599	Changing environments and biomolecule coronas: consequences and challenges for the design of environmentally acceptable engineered nanoparticles. **2018**, 20, 4133-4168		58
598	Titanium Dioxide Nanoparticle Circulation in an Aquatic Ecosystem. *Water, Air, and Soil Pollution*, **2018**, 229, 208	2.6	23
597	Environmentally Sustainable and Ecosafe Polysaccharide-Based Materials for Water -Treatment: An Eco-Design Study. **2018**, 11,		33
596	Occupational exposure and consequent health impairments due to potential incidental nanoparticles in leather tanneries: An evidential appraisal of south Asian developing countries. **2018**, 117, 164-174		13
595	Origin and fate of nanoparticles in marine water - Preliminary results. **2018**, 206, 359-368		8
594	Nanoparticle (CdS) interaction with host (Sesamum indicum L.) its localization, transportation, stress induction and genotoxicity. **2018**, 13, 182-194		8
593	Phytotoxicity and bioaccumulation of zinc oxide nanoparticles in rice (Oryza sativa L.). **2018**, 130, 604-612		40
592	Toxicity of ZnSe nanoparticles to Lemna minor: Evaluation of biological responses. **2018**, 226, 298-307		13
591	Evaluation of Toxicity of Chemically Synthesised Gold Nanoparticles Against Eudrilus eugeniae. **2018**, 29, 1217-1225		7
590	Availability and Risk Assessment of Nanoparticles in Living Systems. **2018**, 1-31		7
589	Water Pollutants Classification and Its Effects on Environment. **2018**, 11-26		11
588	Review of low-cost point-of-use water treatment systems for developing communities. **2018**, 1,		78
587	Nanometals as Promoters of Nutraceutical Quality in Crop Plants. **2018**, 277-310		4
586	The influence of Arsenic on the toxicity of carbon nanoparticles in bivalves. **2018**, 358, 484-493		38
585	Effect of surface modification on carbon nanotubes (CNTs) catalyzed nitrobenzene reduction by sulfide. **2018**, 357, 235-243		18
584	The influence of salinity on the effects of Multi-walled carbon nanotubes on polychaetes. **2018**, 8, 8571		11
583	Membrane Bioreactors for Wastewater Treatment. *Comprehensive Analytical Chemistry*, **2018**, 81, 151-200	1.9	14

582	Stability of silver nanoparticle sulfidation products. *Science of the Total Environment*, **2019**, 648, 854-860	10.2	20
581	Vitamins E and C ameliorate the oxidative stresses induced by zinc oxide nanoparticles on liver and gills of. **2019**, 26, 357-362		17
580	Ecotoxicity of nano-metal oxides: A case study on daphnia magna. **2019**, 28, 878-889		9
579	Physiological effects of zero-valent iron nanoparticles in rhizosphere on edible crop, Medicago sativa (Alfalfa), grown in soil. **2019**, 28, 869-877		16
578	Study of the Mobility of Cerium Oxide Nanoparticles in Soil Using Dynamic Extraction in a Microcolumn and a Rotating Coiled Column. **2019**, 74, 825-833		6
577	Challenges in Studying the Incorporation of Nanomaterials to Building Materials on Microbiological Models. **2019**, 285-303		6
576	Pyrethrum extract encapsulated in nanoparticles: Toxicity studies based on genotoxic and hematological effects in bullfrog tadpoles. *Environmental Pollution*, **2019**, 253, 1009-1020	9.3	14
575	Effects of nanoscale zerovalent cobalt on growth and photosynthetic parameters of soybean Glycine max (L.) Merr. DT26 at different stages. **2019**, 1,		1
574	Toxicity assessment of ZnO nanoparticles to freshwater microalgae Coelastrella terrestris. **2019**, 26, 26991-27001		21
573	Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications. **2019**,		
572	Physical and chemical transformations of zirconium doped ceria nanoparticles in the presence of phosphate: Increasing realism in environmental fate and behaviour experiments. *Environmental Pollution*, **2019**, 252, 974-981	9.3	6
571	Applications of Nanoparticles in Wastewater Treatment. **2019**, 395-418		30
570	Impact of Heavy Metals on Non-food Herbaceous Crops and Prophylactic Role of Si. **2019**, 303-321		0
569	Loading AKBA on surface of silver nanoparticles to improve their sedative-hypnotic and anti-inflammatory efficacies. **2019**, 14, 2783-2798		2
568	Unconditionally blue: Curing epoxy with polyethylene glycol (PEG) surface-functionalized Zn Fe3-O4 magnetic nanoparticles. **2019**, 137, 105285		10
567	An updated review on the influential parameters on thermal conductivity of nano-fluids. **2019**, 296, 111780		101
566	Stabilizing gold nanoparticles for use in X-ray computed tomography imaging of soil systems. **2019**, 6, 190769		6
565	The Influence of Available Cu and Au Nanoparticles (NPs) on the Survival of Water Fleas. **2019**, 16,		5

564	The engineered nanoparticles in food chain: potential toxicity and effects. **2019**, 1, 1		9
563	Small atomic clusters: quantum chemical research of isomeric composition and physical properties. **2019**, 30, 2057-2084		15
562	Characteristics and Driving Mechanism of Soil Organic Carbon Content in Farmland of Beijing Plain: Implication for the Fate of Engineered Polymers in Soil. **2019**, 2019, 1-10		0
561	Evolution of electronic and magnetic properties of nominal magnetite nanoparticles at high pressure probed by x-ray absorption and emission techniques. **2019**, 31, 255301		1
560	Synthesis and Characterization of Zero-Valent Iron Nanoparticles, and the Study of Their Effect against the Degradation of DDT in Soil and Assessment of Their Toxicity against Collembola and Ostracods. **2019**, 4, 18502-18509		6
559	Modeling the Transport of Hazardous Colloidal Suspensions of Nanoparticles Within Soil of Landfill Layers Considering Multicomponent Interactions. **2019**, 5, 581-593		2
558	Fibrous adsorbent derived from sulfonation of cotton waste: application for removal of cadmium sulfide nanoparticles from aquatic media. **2019**, 1, 1		2
557	An overview of treatment technologies for the removal of emerging and nanomaterials contaminants from municipal and industrial wastewater. **2019**, 3-40		4
556	Long-term performance and feasibility of using constructed wetlands for treatment of emerging and nanomaterial contaminants in municipal and industrial wastewater. **2019**, 63-81		
555	Destruction of recalcitrant nanomaterials contaminants in industrial wastewater. **2019**, 137-158		2
554	NPs-TiO and Lincomycin Coexposure Induces DNA Damage in Cultured Human Amniotic Cells. **2019**, 9,		18
553	Seismic Exploration of the River Sand Mining Area. **2019**, 252, 052028		
552	Characteristics and Stability of Incidental Iron Oxide Nanoparticles during Remediation of a Mining-Impacted Stream. **2019**, 53, 11214-11222		3
551	Biomechanical Response of Lung Epithelial Cells to Iron Oxide and Titanium Dioxide Nanoparticles. **2019**, 10, 1047		4
550	Exposure of key marine species to sunscreens: Changing ecotoxicity as a possible indirect effect of global warming. **2019**, 149, 110517		10
549	Nanoparticles in the aquatic environment: Usage, properties, transformation and toxicity□A review. **2019**, 130, 238-249		106
548	Higher toxicity of nano-scale TiO2 and dose-dependent genotoxicity of nano-scale SiO2 on the cytology and seedling development of broad bean Vicia faba. **2019**, 1, 1		3
547	Spatiotemporal distribution of silver and silver-containing nanoparticles in a prealpine lake in relation to the discharge from a wastewater treatment plant. *Science of the Total Environment*, **2019**, 696, 134034	10.2	18

546	Soybean Interaction with Engineered Nanomaterials: A Literature Review of Recent Data. **2019**, 9,		17
545	Generation of nano- and micro-sized organic pollutant emulsions in simulated road runoff. **2019**, 133, 105140		3
544	Displacement reactions between environmentally and biologically relevant ligands on TiO2 nanoparticles: insights into the aging of nanoparticles in the environment. **2019**, 6, 489-504		16
543	Uptake, translocation, and transformation of metal-based nanoparticles in plants: recent advances and methodological challenges. **2019**, 6, 41-59		186
542	Lipidomics reveals insights on the biological effects of copper oxide nanoparticles in a human colon carcinoma cell line. **2019**, 15, 30-38		17
541	Are the green synthesized nanoparticles safe for environment? A case study of aquatic plant Azolla filiculoides as an indicator exposed to magnetite nanoparticles fabricated using microwave hydrothermal treatment and plant extract. **2019**, 54, 506-517		14
540	Innate Immunity Provides Biomarkers of Health for Teleosts Exposed to Nanoparticles. **2018**, 9, 3074		24
539	Nanoparticle emissions from residential wood combustion: A critical literature review, characterization, and recommendations. **2019**, 103, 515-528		28
538	Evaluating the Toxic Impacts of Cadmium Selenide Nanoparticles on the Aquatic Plant Lemna minor. **2019**, 24,		21
537	The effect of pH and ionic strength on the transport of alumina nanofluids in water-saturated porous media. **2019**, 137, 1169-1179		0
536	Can low concentrations of metal oxide and Ag loaded metal oxide nanoparticles pose a risk to stream plant litter microbial decomposers?. *Science of the Total Environment*, **2019**, 653, 930-937	10.2	14
535	Graphene oxide effects in early ontogenetic stages of Triticum aestivum L. seedlings. **2019**, 181, 345-352		25
534	Long-term effect of ZnO and CuO nanoparticles on soil microbial community in different types of soil. **2019**, 352, 204-212		41
533	Iron oxide nanoparticle phytotoxicity to the aquatic plant Lemna minor: effect on reactive oxygen species (ROS) production and chlorophyll a/chlorophyll b ratio. **2019**, 26, 24121-24131		16
532	Application of Carbon-Based Nanomaterials as Fertilizers in Soils. **2019**, 305-333		4
531	Nanotechnology: Let the Land Not Be Parched. **2019**, 335-353		
530	AutoEM: a software for automated acquisition and analysis of nanoparticles. **2019**, 21, 1		13
529	Biofabrication of silver nanoparticles from various plant extracts: blessing to nanotechnology. **2019** , 99, 1434-1445		7

528	Impact of particle size, oxidation state and capping agent of different cerium dioxide nanoparticles on the phosphate-induced transformations at different pH and concentration. **2019**, 14, e0217483		21
527	Nanosupplements and Animal Health. **2019**, 749-764		2
526	Induction of Plant Defense Machinery Against Nanomaterials Exposure. **2019**, 241-263		4
525	Anions influence the extraction of rutile nanoparticles from synthetic and lake water.. **2019**, 9, 16767-16773		
524	Effects of myo-inositol hexakisphosphate, ferrihydrite coating, ionic strength and pH on the transport of TiO nanoparticles in quartz sand. *Environmental Pollution*, **2019**, 252, 1193-1201	9.3	9
523	Fate of engineered nanomaterials in urban and work environments. **2019**, 143-163		
522	Physio-biochemical and ultrastructural impact of (FeO) nanoparticles on tobacco. **2019**, 19, 253		25
521	Toxicity of cadmium to wheat seedling roots in the presence of graphene oxide. **2019**, 233, 9-16		12
520	Toxic effects of engineered nanoparticles (metal/metal oxides) on plants using Allium cepa as a model system. *Comprehensive Analytical Chemistry*, **2019**, 125-143	1.9	9
519	Molecular insights into the effects of Cu(II) on sulfamethoxazole and 17Ɛ-estradiol adsorption by carbon nanotubes/CoFe2O4 composites. **2019**, 373, 995-1002		17
518	Biologically safe colloidal suspensions of naked iron oxide nanoparticles for in situ antibiotic suppression. **2019**, 181, 102-111		7
517	Improved extraction efficiency of natural nanomaterials in soils to facilitate their characterization using a multimethod approach. *Science of the Total Environment*, **2019**, 677, 34-46	10.2	9
516	A model sensitivity analysis to determine the most important physicochemical properties driving environmental fate and exposure of engineered nanoparticles. **2019**, 6, 2049-2060		18
515	Iron-Rich Nanoparticles in Natural Aquatic Environments. **2019**, 9, 287		8
514	Mobility and Fate of Cerium Dioxide, Zinc Oxide, and Copper Nanoparticles in Agricultural Soil at Sequential Wetting-Drying Cycles. **2019**, 12,		6
513	Behavior of cerium dioxide nanoparticles in chernozem soils at different exposure scenarios. **2019**, 26, 17482-17488		1
512	Impact of fullerene C60 on behavioral and hematological changes in the freshwater fish, Anabas testudineus (Bloch, 1792). **2019**, 9, 2147-2167		6
511	Evaluation of the effect of nickel clusters on the formation of incipient soot particles from polycyclic aromatic hydrocarbons via ReaxFF molecular dynamics simulations. **2019**, 21, 9865-9875		5

510	Engineering nanomaterials for water and wastewater treatment: review of classifications, properties and applications. **2019**, 43, 7902-7927		49
509	Advances in Nanobiotechnology with Special Reference to Plant Systems. **2019**, 371-387		8
508	Deposition of protein-coated multi-walled carbon nanotubes on oxide surfaces and the retention in a silicon micromodel. **2019**, 375, 107-114		8
507	Silver nanoparticles enter the tree stem faster through leaves than through roots. **2019**, 39, 1251-1261		26
506	A non-damaging purification method: decoupling the toxicity of multi-walled carbon nanotubes and their associated metal impurities. **2019**, 6, 1852-1865		3
505	Effect of Nano-Carbon Black Surface Modification on Toxicity to Earthworm (Eisenia fetida) Using Filter Paper Contact and Avoidance Test. **2019**, 103, 206-211		5
504	Impacts of Metal and Metal Oxide Nanoparticles on Plant Growth and Productivity. **2019**, 379-392		7
503	How Old is Nanotechnology?. **2019**, 1-19		
502	Prediction of Cd toxicity to Daphnia magna in the mixture of multi-walled carbon nanotubes and kaolinite. **2019**, 41, 2011-2021		3
501	Ocean acidification increases the accumulation of titanium dioxide nanoparticles (nTiO) in edible bivalve mollusks and poses a potential threat to seafood safety. **2019**, 9, 3516		18
500	Effects of interactions between humic acid and heavy metal ions on the aggregation of TiO nanoparticles in water environment. *Environmental Pollution*, **2019**, 248, 834-844	9.3	27
499	Nano-fertilization to Enhance Nutrient Use Efficiency and Productivity of Crop Plants. **2019**, 473-505		10
498	Ecotoxicity of silver nanoparticles on plankton organisms: a review. **2019**, 21, 1		16
497	Applications of metabolomics in assessing ecological effects of emerging contaminants and pollutants on plants. **2019**, 373, 527-535		45
496	Undiscovered Mechanism for Pyrogenic Carbonaceous Matter-Mediated Abiotic Transformation of Azo Dyes by Sulfide. **2019**, 53, 4397-4405		26
495	Effects of phosphate on the dispersion stability and coagulation/flocculation/sedimentation removal efficiency of anatase nanoparticles. **2019**, 224, 580-587		12
494	Effects of Nanoparticles on Algae: Adsorption, Distribution, Ecotoxicity and Fate. **2019**, 9, 1534		41
493	Non-invasive Monitoring of Biochemical Response of Wheat Seedlings Toward Titanium Dioxide Nanoparticles Treatment Using Attenuated Total Reflectance Fourier Transform Infrared and Laser Induced Fluorescence Spectroscopy. **2019**, 52, 1629-1652		7

492	Versatile Electrochemical Sensing Platform for Bacteria. **2019**, 91, 4317-4322		23
491	The Galleria mellonella Hologenome Supports Microbiota-Independent Metabolism of Long-Chain Hydrocarbon Beeswax. **2019**, 26, 2451-2464.e5		53
490	Bio-interactions and risks of engineered nanoparticles. **2019**, 172, 98-108		62
489	TiO nanoparticles in irrigation water mitigate impacts of aged Ag nanoparticles on soil microorganisms, Arabidopsis thaliana plants, and Eisenia fetida earthworms. **2019**, 172, 202-215		34
488	Nanotoxicity of engineered nanomaterials (ENMs) to environmentally relevant beneficial soil bacteria - a critical review. **2019**, 13, 392-428		37
487	Use of XAS for Studies of Aqueous and Surface Geochemistry. **2019**, 1-7		
486	Synthesis and characterizations of nZVI-AC composites from coconut shells and its application for the adsorption of Pb(II) and Cr(VI) ions. **2019**, 509, 012042		2
485	. **2019**,		6
484	Nanomaterials in the Environment: Research Hotspots and Trends. **2019**, 16,		6
483	Nanoparticle-Biological Interactions in a Marine Benthic Foraminifer. **2019**, 9, 19441		12
482	Separation of nanoparticles from polydisperse environmental samples: comparative study of filtration, sedimentation, and coiled tube field-flow fractionation. **2019**, 411, 8011-8021		8
481	Biosynthesis and characterization of silver nanoparticles induced by fungal proteins and its application in different biological activities. **2019**, 17, 8		34
480	A study of TiO nanocrystal growth and environmental remediation capability of TiO/CNC nanocomposites. **2019**, 9, 40565-40576		18
479	Transport of engineered nanoparticles in soils and aquifers. **2019**, 27, 43-70		20
478	Determination of nanoparticle heteroaggregation attachment efficiencies and rates in presence of natural organic matter monomers. Monte Carlo modelling. *Science of the Total Environment*, **2019**, 650, 530-540	10.2	20
477	A review on the interactions between engineered nanoparticles with extracellular and intracellular polymeric substances from wastewater treatment aggregates. **2019**, 219, 766-783		51
476	NiO-nanoparticles induce reduced phytotoxic hazards in wheat (Triticum aestivum L.) grown under future climate CO. **2019**, 220, 1047-1057		28
475	The impact of morphology and size of zinc oxide nanoparticles on its toxicity to the freshwater microalga, Raphidocelis subcapitata. **2019**, 26, 2409-2420		35

474	A review on positive and negative impacts of nanotechnology in agriculture. **2019**, 16, 2175-2184		35
473	Adsorptive remediation of cobalt oxide nanoparticles by magnetized □cellulose fibers from waste paper biomass. **2019**, 273, 386-393		19
472	Effect of foliar application of NPK nanoparticle fertilization on yield and genotoxicity in wheat (Triticum aestivum L.). *Science of the Total Environment*, **2019**, 653, 1128-1139	10.2	22
471	Toxicity of pure silver nanoparticles produced by spark ablation on the aquatic plant Lemna minor. **2019**, 128, 17-21		11
470	Copper and zinc fractionation in soils treated with CuO and ZnO nanoparticles: The effect of soil type and moisture content. *Science of the Total Environment*, **2019**, 653, 822-832	10.2	14
469	Ti and Zn Content in Moss Shoots After Exposure to TiO and ZnO Nanoparticles: Biomonitoring Possibilities. **2019**, 102, 218-223		4
468	Introduction. **2019**, 1-36		1
467	Comparative dissolution, uptake, and toxicity of zinc oxide particles in individual aquatic species and mixed populations. **2019**, 38, 591-602		30
466	Engineered Nanomaterials in the Environment, their Potential Fate and Behaviour and Emerging Techniques to Measure Them. **2019**, 1-15		2
465	Pore-scale modeling of nanoparticle transport and retention in real porous materials. **2019**, 127, 65-74		4
464	Models for assessing engineered nanomaterial fate and behaviour in the aquatic environment. **2019**, 36, 105-115		37
463	Negative effect of copper nanoparticles on the conjugation frequency of conjugative catabolic plasmids. **2019**, 169, 662-668		13
462	Phytotoxicity of Silver Nanoparticles to Aquatic Plants, Algae, and Microorganisms. **2019**, 143-168		12
461	Recent Developments in Green Synthesis of Metal Nanoparticles Utilizing Cyanobacterial Cell Factories. **2019**, 237-265		9
460	Nanoparticles in mitigating gaseous emissions from liquid dairy manure stored under anaerobic condition. **2019**, 76, 26-36		12
459	Nanoanalytics: history, concepts, and specificities. **2019**, 26, 5267-5281		15
458	Sublethal effects of chronic exposure to CdO or PbO nanoparticles or their binary mixture on the honey bee (Apis millefera L.). **2020**, 27, 19004-19015		16
457	ZnO and CuO nanoparticles: a threat to soil organisms, plants, and human health. **2020**, 42, 147-158		98

456	Grain discoloration and its management: an emerging threat to paddy cultivation. **2020**, 127, 1-8		3
455	Magnetite nanoparticles effects on adverse responses of aquatic and terrestrial animal models. **2020**, 383, 121204		25
454	Partitioning and stability of ionic, nano- and microsized zinc in natural soil suspensions. *Science of the Total Environment*, **2020**, 700, 134445	10.2	13
453	Mechanoregulation of titanium dioxide nanoparticles in cancer therapy. **2020**, 107, 110303		31
452	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. **2020**, 59, 8542-8551		16
451	Reviews of Environmental Contamination and Toxicology Volume 248. **2020**,		
450	Effects of Copper Oxide Nanoparticles (CuO-NPs) on Parturition Time, Survival Rate and Reproductive Success of Guppy Fish, Poecilia reticulata. **2020**, 31, 499-506		32
449	Differentiation of Nanoparticles Isolated from Distinct Plant Species Naturally Growing in a Heavy Metal Polluted Site. **2020**, 386, 121644		8
448	Nanometer-micrometer sized depleted uranium (DU) particles in the environment. **2020**, 211, 106077		9
447	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. **2020**, 132, 8620-8629		2
446	Early-life long-term exposure to ZnO nanoparticles suppresses innate immunity regulated by SKN-1/Nrf and the p38 MAPK signaling pathway in Caenorhabditis elegans. *Environmental Pollution*, **2020**, 256, 113382	9.3	9
445	Current applications of nanotechnology to develop plant growth inducer agents as an innovation strategy. **2020**, 40, 15-30		35
444	Assessment of Cu and CuO nanoparticle ecological responses using laboratory small-scale microcosms. **2020**, 7, 105-115		27
443	Toxicological study of metal and metal oxide nanoparticles in zebrafish. **2020**, 40, 37-63		67
442	The role of Fe oxyhydroxide coating, illite clay, and peat moss in nanoscale titanium dioxide (nTiO) retention and transport in geochemically heterogeneous media. *Environmental Pollution*, **2020**, 257, 113625	9.3	3
441	Morphostructural and immunohistochemical study for evaluation of nano-TiO toxicity in Armadillo officinalis Dumﬕl, 1816 (Crustacea, Isopoda, Oniscidea). *Microscopy Research and Technique*, **2020**, 83, 297-303	2.8	3
440	Assessment of Oxidative Stress on Artemia salina and Daphnia magna After Exposure to Zn and ZnO Nanoparticles. **2020**, 104, 206-214		8
439	Preparation and performance characterization of ceramic/silver nanoparticle composite in water purification. **2020**, 17, 1522-1530		1

438	Chronic sublethal effects of ZnO nanoparticles on Tigriopus fulvus (Copepoda, Harpacticoida). **2020**, 27, 30957-30968		7
437	Effects of Zn and ZnO Nanoparticles on Artemia salina and Daphnia magna Organisms: Toxicity, Accumulation and Elimination. *Science of the Total Environment*, **2020**, 711, 134869	10.2	24
436	Surface modifications at the oxide/water interface: Implications for Cu binding, solution chemistry and chemical stability of iron oxide nanoparticles. *Environmental Pollution*, **2020**, 257, 113626	9.3	5
435	Green synthesis of cerium oxide nanoparticle using Origanum majorana L. leaf extract, its characterization and biological activities. **2020**, 34, e5314		22
434	Influence of silver nanoparticles on settling of suspended sediments. **2020**, 299, 112135		6
433	Toxicity Evaluation of Quantum Dots (ZnS and CdS) Singly and Combined in Zebrafish (). **2019**, 17,		12
432	Response of soil enzyme activity and bacterial community to black phosphorus nanosheets. **2020**, 7, 404-413		2
431	Purification of water from heavy metal of lead by nanocomposite of Ce-TZP/Al2O3. **2020**, 17, 2563-2568		1
430	Microplastic abundance and accumulation behavior in Lake Onego sediments: a journey from the river mouth to pelagic waters of the large boreal lake. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104367	6.8	15
429	Apoptosis pathway in the combined treatment of x-ray and 5-FU-loaded triblock copolymer-coated magnetic nanoparticles. **2020**, 15, 2255-2270		4
428	Trends in the sample preparation and analysis of nanomaterials as environmental contaminants. **2020**, 28, e00101		115
427	Aquatic Macrophytes in Constructed Wetlands: A Fight against Water Pollution. **2020**, 12, 9202		17
426	Colloidal stability and aggregation kinetics of nanocrystal CdSe/ZnS quantum dots in aqueous systems: effects of pH and organic ligands. **2020**, 22, 1		2
425	Ameliorative effects of selenium nanoparticles on letrozole induced polycystic ovarian syndrome in adult rats. **2020**, 4, 49		0
424	Effect of AuNPs and AgNPs on the Antioxidant System and Antioxidant Activity of Lavender (Mill.) from In Vitro Cultures. **2020**, 25,		7
423	Quantifying the level of nanoparticle uptake in mammalian cells using flow cytometry. **2020**, 12, 15743-15751		21
422	Long-term fate of ZnO-FeO mix-nanoparticles through the saturated porous media under constant head condition. *Science of the Total Environment*, **2020**, 721, 137669	10.2	4
421	The Role of Nanotechnology in Subgrade and Pavement Engineering: A Review. **2020**, 20, 4607-4618		20

420	Biochemical Response of Oakleaf Lettuce Seedlings to Different Concentrations of Some Metal(oid) Oxide Nanoparticles. **2020**, 10, 997	10
419	Graphene oxide influences bacterial community and soil environments of Cd-polluted Haplic Cambisols in Northeast China. **2020**, 32, 1699	1
418	Suspended multiwalled, acid-functionalized carbon nanotubes promote aggregation of the opportunistic pathogen Pseudomonas aeruginosa. **2020**, 15, e0236599	3
417	Occurrence and Origins of Cerium Dioxide and Titanium Dioxide Nanoparticles in the Loire River (France) by Single Particle ICP-MS and FEG-SEM Imaging. **2020**, 8,	10
416	Water quality parameters as indicators to study the interactions of nanoparticles in an aqueous environment. **2020**, 14, 100329	
415	Removal of Toxic Heavy Metal Ions (Pb, Cr, Cu, Ni, Zn, Co, Hg, and Cd) from Waste Batteries or Lithium Cells Using Nanosized Metal Oxides: A Review. **2020**, 20, 7231-7254	12
414	Toxicity Going Nano: Ionic Versus Engineered Cu Nanoparticles Impacts on the Physiological Fitness of the Model Diatom Phaeodactylum tricornutum. **2020**, 7,	4
413	Interaction of Polyoxometalates and Nanoparticles with Collector Surfaces□ocus on the Use of Streaming Current Measurements at Flat Surfaces. **2020**, 4, 39	1
412	Current Trends in the Application of Nanomaterials for the Removal of Emerging Micropollutants and Pathogens from Water. **2020**, 25,	24
411	Physicochemical characteristics of colloidal nanomaterial suspensions and aerosolized particulates from nano-enabled consumer spray products. **2020**, 30, 925-941	0
410	The ecology of nanomaterials in agroecosystems. **2020**, 313-355	2
409	Mechanistic insights into simultaneous removal of copper, cadmium and arsenic from water by iron oxide-functionalized magnetic imogolite nanocomposites. **2020**, 398, 122940	11
408	Hygroscopic properties of NaCl nanoparticles on the surface: a scanning force microscopy study. **2020**, 22, 9967-9973	5
407	Abiotic stress□nduced programmed cell death in plants. **2020**, 1-24	0
406	Toxicity and Regulatory Concerns for Nanoformulations in Medicine. **2020**, 333-357	4
405	Fibrous Materials for Antimicrobial Applications. **2020**, 927-951	2
404	The damage of the Watson-Crick base pairs by nickel nanoparticles: A first-principles molecular dynamics study. **2020**, 87, 107262	1
403	A Concise Account of the Studies Conducted on the Transport, Fate, Transformation and Toxicity of Engineered Nanomaterials. **2020**, 51-65	

402	Removal of a mixture of metal nanoparticles from natural surface waters using traditional coagulation process. **2020**, 36, 101285		6
401	Tradeoff between risks through ingestion of nanoparticle contaminated water or fish: Human health perspective. *Science of the Total Environment*, **2020**, 740, 140140	10.2	12
400	In Vitro Effects of Titanium Dioxide Nanoparticles (TiONPs) on Cadmium Chloride (CdCl) Genotoxicity in Human Sperm Cells. **2020**, 10,		16
399	Characterization of Silver Nanoparticles Obtained by a Green Route and Their Evaluation in the Bacterium of Pseudomonas aeruginosa. *Crystals*, **2020**, 10, 395	2.3	5
398	Nanoparticles: An Experimental Study of Zinc Nanoparticles Toxicity on Marine Crustaceans. General Overview on the Health Implications in Humans. **2020**, 8, 192		26
397	Evaporation of Metals during the Thermal Treatment of Oxide Nanomaterials in Cellulose-Based Matrices. **2020**, 54, 4504-4514		3
396	Nanomaterials for removal of waterborne pathogens. **2020**, 385-432		16
395	Visible light□driven perovskite-based photocatalyst for wastewater treatment. **2020**, 265-302		2
394	Carbonate sludge as a nanostructured material for environmental engineering. **2020**, 157, 02015		0
393	Toxicity of Ag on microstructure, biochemical activities and genic material of Trifolium pratense L. seedlings with special reference to phytoremediation. **2020**, 195, 110499		12
392	The influence of polyethylene microplastics on pesticide residue and degradation in the aquatic environment. **2020**, 394, 122517		35
391	Emerging Eco-friendly Green Technologies for Wastewater Treatment. **2020**,		4
390	Inhibition of Estrogenic Response of Yeast Screen Assay by Exposure to Non-Lethal Levels of Metallic Nanoparticles. **2020**, 10, 3796		
389	A Comparative Study of Zinc Oxide Nanotoxicity on Reproductive Potential of an Earthworm in Natural and Artificial Substrates. **2020**, 19, 1950030		1
388	Transport behaviour of different metal-based nanoparticles through natural sediment in the presence of humic acid and under the groundwater condition. **2020**, 129, 1		3
387	An updated review on the properties, fabrication and application of hybrid-nanofluids along with their environmental effects. **2020**, 257, 120408		111
386	Sustainable Agriculture Reviews 41. **2020**,		3
385	Effects of Copper Oxide Nanoparticles on the Growth of Rice (L.) Seedlings and the Relevant Physiological Responses. **2020**, 17,		31

384	Carbon nanomaterial applications in air pollution remediation. **2020**, 133-153		11
383	Toxic effects of engineered carbon nanoparticles on environment. **2020**, 237-260		7
382	Carbon nanotubes: An efficient sorbent for herbicide sensing and remediation. **2020**, 429-457		1
381	Synthesis of Metal/Metal Oxide Nanoparticles by Green Methods and Their Applications. **2020**, 63-81		3
380	Application of carbon nanomaterials in plant biotechnology. **2020**, 30, 340-345		10
379	Lethal and sub-lethal effects of nanosized titanium dioxide particles on Hydropsyche exocellata Dufour, 1841. **2020**, 41, 85-103		1
378	Influence of graphene oxide nanoparticles on the transport and cotransport of biocolloids in saturated porous media. **2020**, 189, 110841		21
377	Experimental study on the synergistic effect of nanogel and low salinity water on enhanced oil recovery for carbonate reservoirs. **2020**, 265, 116971		5
376	Genotoxicity assessment of carbon-based nanomaterials; Have their unique physicochemical properties made them double-edged swords?. **2020**, 783, 108296		21
375	Nanocatalysts and other nanomaterials for water remediation from organic pollutants. **2020**, 408, 213180		197
374	Nanotechnology for soil remediation: Revitalizing the tarnished resource. **2020**, 345-370		11
373	Carbon nanomaterials (CNTs) phytotoxicity: Quo vadis?. **2020**, 557-581		1
372	Adsorption of the methyl green dye pollutant from aqueous solution using mesoporous materials MCM-41 in a fixed-bed column. **2020**, 6, e03253		42
371	In-Plane and Out-of-Plane MEMS Piezoresistive Cantilever Sensors for Nanoparticle Mass Detection. **2020**, 20,		11
370	The Acute Toxicity of SiO2 and Fe3O4 Nano-particles on Daphnia magna. **2020**, 12, 2941-2946		7
369	A voltammetric investigation of the sulfidation of silver nanoparticles by zinc sulfide. *Science of the Total Environment*, **2020**, 720, 137685	10.2	0
368	Titanium dioxide nanoparticles induced the apoptosis of RAW264.7 macrophages through miR-29b-3p/NFAT5 pathway. **2020**, 27, 26153-26162		4
367	Sedimentation of nanoplastics from water with Ca/Al dual flocculants: Characterization, interface reaction, effects of pH and ion ratios. **2020**, 252, 126450		21

366	Endomembrane Reorganization Induced by Heavy Metals. **2020**, 9,	15
365	Effects of silver(I) toxicity on microstructure, biochemical activities, and genic material of Lemna minor L. with special reference to application of bioindicator. **2020**, 27, 22735-22748	5
364	Toxic impacts of rutile titanium dioxide in Mytilus galloprovincialis exposed to warming conditions. **2020**, 252, 126563	12
363	Converting natural nanoclay into modified nanoclay augments the toxic effect of natural nanoclay on aquatic invertebrates. **2020**, 197, 110602	3
362	Effects of green synthesis of sulfur nanoparticles from barks on physiological and biochemical factors of Lettuce (). **2020**, 26, 1055-1066	16
361	Effect of Metal Oxide Nanoparticles on the Chemical Speciation of Heavy Metals and Micronutrient Bioavailability in Paddy Soil. **2020**, 17,	6
360	Interactive effects of mercuric oxide nanoparticles and future climate CO on maize plant. **2021**, 401, 123849	9
359	Impact of bovine serum albumin - A protein corona on toxicity of ZnO NPs in environmental model systems of plant, bacteria, algae and crustaceans. **2021**, 270, 128629	14
358	Pollution assessment of nanomaterials. **2021**, 921-973	
357	Disturbance in Mineral Nutrition of Fenugreek Grown in Water Polluted with Nanosized Titanium Dioxide. **2021**, 106, 327-333	2
356	Delivery, fate and physiological effect of engineered cobalt ferrite nanoparticles in barley (Hordeum vulgare L.). **2021**, 265, 129138	1
355	An overview on nanostructured TiO2‐containing fibers for photocatalytic degradation of organic pollutants in wastewater treatment. **2021**, 40, 101827	14
354	Effects of copper in Daphnia are modulated by nanosized titanium dioxide and natural organic matter: what is the impact of aging duration?. **2021**, 28, 13991-13999	1
353	Stronger impacts of long-term relative to short-term exposure to carbon nanomaterials on soil bacterial communities. **2021**, 410, 124550	4
352	Evaluation of solution-cathode glow discharge atomic emission spectrometry for the analysis of nanoparticle containing solutions. **2021**, 176, 106040	5
351	Modeling the Transport of Aggregating Nanoparticles in Porous Media. **2021**, 57,	8
350	Does triclosan adsorption on polystyrene nanoplastics modify the toxicity of single contaminants?. **2021**, 8, 282-296	5
349	A review on in vivo and in vitro nanotoxicological studies in plants: A headlight for future targets. **2021**, 208, 111697	20

348	Toxicity associated with long term use of aluminum cookware in mice: A systemic, genetic and reproductive perspective. **2021**, 861-862, 503296		3
347	Evaluation of silver nanoparticles (AgNPs) penetration through a clay liner in landfills. **2021**, 404, 124098		3
346	Differentiation of carbon black from black carbon using a ternary plot based on elemental analysis. **2021**, 264, 128511		5
345	Environmental Remediation Through Carbon Based Nano Composites. **2021**,		3
344	Structural and Biological Investigation of Green Synthesized Silver and Zinc Oxide Nanoparticles. **2021**, 31, 552-558		7
343	Application of Metal Oxide Nanomaterials in Agriculture: Benefit or Bane?. **2021**, 231-248		
342	Effects of zinc-oxide nanoparticles on soil microbial community and their functionality. **2021**, 267-284		1
341	Toxicity and Risk Assessment of Nanomaterials. **2021**, 391-416		
340	Predictive nanotoxicology: from nanotoxicity to nanosafety of select and commonly used nanomaterials. **2021**, 459-477		
339	Review of Bioaccumulation, Biomagnification, and Biotransformation of Engineered Nanomaterials. **2021**, 133-164		1
338	Environmentally relevant concentrations of titanium dioxide nanoparticles pose negligible risk to marine microbes. **2021**, 8, 1236-1255		8
337	Toxicity/risk assessment of nanomaterials when used in soil treatment. **2021**, 87-100		
336	Variability, Behaviour and Impact of Nanoparticles in the Environment. **2021**, 315-328		0
335	Titanium Dioxide Nanoparticles Induce Root Growth Inhibition in Soybean Due to Physical Damages. *Water, Air, and Soil Pollution*, **2021**, 232, 1	2.6	6
334	Nano-toxicity and Aquatic Food Chain. **2021**, 189-198		1
333	Potential risk and safety concerns of industrial nanomaterials in environmental management. **2021**, 1057-1079		
332	Environmental Nanotechnology: Its Applications, Effects and Management. **2021**, 47-72		
331	Emerging Contaminants: Analysis, Aquatic Compartments and Water Pollution. **2021**, 1-111		2

330	Mechanisms of Action of Nanoparticles in Living Systems. **2021**, 1555-1571	1
329	Evaluation of Nanotoxicity Using Zebrafish: Preclinical Model. **2021**, 173-197	1
328	Mechanisms of Genotoxicity and Oxidative Stress Induced by Engineered Nanoparticles in Plants. **2021**, 151-197	
327	Nematicidal activity of silver nanomaterials against plant-parasitic nematodes. **2021**, 527-548	0
326	Fate and Transport of Engineered Nanoparticles as an Emerging Agricultural Contaminant. **2021**, 283-308	0
325	Nanocomposites as Reinforcement for Timber Structural Elements. **2021**, 79-98	1
324	Mechanisms of toxicity of engineered nanoparticles: adverse outcome pathway for dietary silver nanoparticles in mussels. **2021**, 39-82	
323	Green Silver Nanoparticles: Recent Trends and Technological Developments. **2021**, 29, 2711-2737	2
322	Effects of SiO nanoparticles on the uptake of tetrabromobisphenol A and its impact on the thyroid endocrine system in zebrafish larvae. **2021**, 209, 111845	8
321	Toxicity of gamma aluminium oxide nanoparticles in the Mediterranean mussel (): histopathological alterations and antioxidant responses in the gill and digestive gland. **2021**, 26, 248-259	2
320	Investigating the release of ZnO nanoparticles from cement mortars on microbiological models. 1	5
319	Uptake and Intracellular Trafficking Studies of Multiple Dye-Doped Core-Shell Silica Nanoparticles in Lymphoid and Myeloid Cells. **2021**, 14, 29-48	1
318	Toxicity assessment of synthesized titanium dioxide nanoparticles in fresh water algae Chlorella pyrenoidosa and a zebrafish liver cell line. **2021**, 211, 111948	11
317	Surface-enhanced Raman scattering by the composite structure of Ag NP-multilayer Au films separated by AlO. **2021**, 29, 8890-8901	12
316	Effects of TiO and ZnO nanoparticles on vermicomposting of dewatered sludge: studies based on the humification and microbial profiles of vermicompost. **2021**, 28, 38718-38729	2
315	Environmental risk of nanomaterials and nanoparticles and EPR technique as an effective tool to study them-a review. **2021**, 28, 22203-22220	2
314	Nanofiltration Using Graphene-Epoxy Filter Media Actuated by Surface Acoustic Waves. **2021**, 15,	4
313	Characterization, bio-uptake and toxicity of polymer-coated silver nanoparticles and their interaction with human peripheral blood mononuclear cells. **2021**, 12, 282-294	1

312	Separation, Characterization, and Analysis of Environmental Nano- and Microparticles: State-of-the-Art Methods and Approaches. **2021**, 76, 413-429		2
311	Single and combined toxicity of amino-functionalized polystyrene nanoparticles with potassium dichromate and copper sulfate on brine shrimp Artemia franciscana larvae. **2021**, 28, 45317-45334		0
310	Role of model organisms and nanocompounds in human health risk assessment. **2021**, 193, 285		2
309	Monitoring of Nanomaterials (NMs) in the Environment. **2021**, 261-274		
308	Ecotoxicological effect of TiO nano particles on different soil enzymes and microbial community. **2021**, 30, 719-732		4
307	Comparative toxicity of ionic and nanoparticulate zinc in the species Cymodoce truncata, Gammarus aequicauda and Paracentrotus lividus. **2021**, 28, 42891-42900		1
306	Importance of the number emission factor of combustion-generated aerosols from nano-enabled products.. **2021**, 22, 100307		0
305	Zinc oxide nanoparticles: potential effects on soil properties, crop production, food processing, and food quality. **2021**, 28, 36942-36966		5
304	ADSORBENT MATERIALS FOR EMERGING CONTAMINANT (TETRACYCLINE) REMOVAL. **2021**, 9, 466-491		
303	Nanoparticles induced stress and toxicity in plants. **2021**, 15, 100457		17
302	Effects of Copper Oxide Nanoparticles on Immune and Metabolic Parameters of Galleria mellonella L. **2021**, 107, 412-420		2
301	Nanoparticles from the Cosmetics and Medical Industries in Legal and Environmental Aspects. **2021**, 13, 5805		8
300	Nanoparticles: Weighing the Pros and Cons from an Eco-genotoxicological Perspective. **2021**, 26, 83-97		3
299	Various Remediation Measures for Groundwater Contamination. **2021**, 326-351		
298	Photoactive Nanomaterials: Applications in Wastewater Treatment and Their Environmental Fate. **2021**, 331-349		
297	Progress on suspended nanostructured engineering materials powered solar distillation- a review. **2021**, 143, 110848		18
296	Novel Applications of Nanoparticles in Nature and Building Materials.		1
295	Stem cells of aquatic invertebrates as an advanced tool for assessing ecotoxicological impacts. *Science of the Total Environment*, **2021**, 771, 144565	10.2	5

294	CHARACTERIZATION AND BACTERIAL TOXICITY OF TITANIUM DIOXIDE NANOPARTICLES. **2021**, 9-11		1
293	Carbon dots inhibit root growth by disrupting auxin biosynthesis and transport in Arabidopsis. **2021**, 216, 112168		5
292	Nanocontaminants in soil: emerging concerns and risks. 1		1
291	Metabolic Activity Enzymes. **2021**, 194-250		0
290	Simple Method for the Extraction and Determination of Ti-, Zn-, Ag-, and Au-Containing Nanoparticles in Sediments Using Single-Particle Inductively Coupled Plasma Mass Spectrometry. **2021**, 55, 10354-10364		4
289	Contemporary Application of Nanotechnology in Agriculture. 109-129		
288	Nanotechnology: Advances in Plant and Microbial Science. **2021**, 131-159		
287	Assessment of Morpho-Physiological and Biochemical Responses of Mercury-Stressed L. to Silver Nanoparticles and Applications. **2021**, 10,		0
286	Toxicity of three carbon-based nanomaterials to earthworms: Effect of morphology on biomarkers, cytotoxicity, and metabolomics. *Science of the Total Environment*, **2021**, 777, 146224	10.2	8
285	Polyamidoamine dendrimer-based materials for environmental applications: A review. **2021**, 334, 116017		10
284	Combined factors influencing the surface charge and aggregation behaviors of TiO2 nanoparticles in the presence of humic acid and UV irradiation. **2021**, 23, 1		0
283	Dual Role of Nanoparticles in Plant Growth and Phytopathogen Management. **2021**, 203-219		
282	Nanoparticles as Elicitors of Biologically Active Ingredients in Plants. **2021**, 170-202		
281	Application of Carbon Nanoparticles in Oncology and Regenerative Medicine. **2021**, 22,		6
280	Contribution of microparticles to the transport of pollution by rivers and groundwaters in a large city. **2021**, 834, 012047		1
279	Comparing the effect of zinc oxide and titanium dioxide nanoparticles on the ability of moderately halophilic bacteria to treat wastewater. **2021**, 11, 16969		1
278	Ecotoxicological effects of new generation pollutants (nanoparticles, amoxicillin and white musk) on freshwater and marine phytoplankton species. **2021**, 279, 130623		5
277	Action of Surfactants in Driving Ecotoxicity of Microplastic-Nano Metal Oxides Mixtures: A Case Study on Daphnia magna under Different Nutritional Conditions.		0

276	MoS Nanosheets-Cyanobacteria Interaction: Reprogrammed Carbon and Nitrogen Metabolism. **2021**, 15, 16344-16356		3
275	Quantifying Nanoparticle Associated Ti, Ce, Au, and Pd Occurrence in 35 U.S. Surface Waters.		1
274	Algal biomass nanoparticles: chemical characteristics, biological actions, and applications. 1		1
273	Ecotoxicity of silica nanoparticles in aquatic organisms: An updated review. **2021**, 87, 103689		4
272	Engineered nanoparticles for removal of pollutants from wastewater: Current status and future prospects of nanotechnology for remediation strategies. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106160	6.8	20
271	Reconnaissance Study on Adsorption of Pharmaceuticals and Personal Care Products to Managed Turf Soils and Associated Oxide Nanoparticles. **2021**, 147, 04021046		
270	Experimental study of rheological characteristics of ́MWCNT-Al2O3 (40:60) / SAE50 hybrid nano-lubricant to identify optimal lubrication conditions and post-processing of results using the response surface method. **2021**, 15, 2059-2074		4
269	Transfer, transportation, and accumulation of cerium-doped carbon quantum dots: Promoting growth and development in wheat. **2021**, 226, 112852		3
268	Immense impact from small particles: Review on stability and thermophysical properties of nanofluids. **2021**, 48, 101635		5
267	Importance of exposure route in determining nanosilver impacts on a stream detrital processing chain. *Environmental Pollution*, **2021**, 290, 118088	9.3	0
266	Understanding the fate of nano-plastics in wastewater treatment plants and their removal using membrane processes. **2021**, 284, 131430		14
265	Recent advances in the nanoparticles synthesis using plant extract: Applications and future recommendations. **2022**, 1248, 131538		5
264	Environmental and industrialization challenges of nanofluids. **2022**, 467-481		1
263	Effects of selected functional groups on nanoplastics transport in saturated media under diethylhexyl phthalate co-contamination conditions. **2022**, 286, 131965		5
262	Responses of Terrestrial Plants to Metallic Nanomaterial Exposure: Mechanistic Insights, Emerging Technologies, and New Research Avenues. **2021**, 165-191		1
261	Effects of carboxylated multi-walled carbon nanotubes on bioconcentration of pentachlorophenol and hepatic damages in goldfish. **2021**, 30, 1389-1398		2
260	Fate of 14C-labeled few-layer graphene in natural soils: competitive roles of ferric oxides. **2021**, 8, 1425-1436		2
259	Impact of Nanomaterials on the Food Chain. **2021**, 229-249		

258	Nanotechnology-based innovative technologies for high agricultural productivity: Opportunities, challenges, and future perspectives. **2021**, 211-220	1
257	Evaluation of the influence of food intake on the incorporation and excretion kinetics of mesoporous silica particles in C.elegans. **2021**, 334, 109363	1
256	Nanomaterials usage as adsorbents for the pollutants removal from wastewater; a review. **2021**, 42, 2590-2595	2
255	Development of a Three-Level Risk Assessment Strategy for Nanomaterials. **2009**, 161-178	6
254	Nanoparticles and Plant Interaction with Respect to Stress Response. **2020**, 1-15	10
253	Introduction to Nanotechnology with Special Reference to Ophthalmic Delivery. **2016**, 1-8	2
252	Nanomaterial Toxicity in Microbes, Plants and Animals. **2017**, 243-266	2
251	Environmental Nanotechnology: Global Framework and Integrative Strategies of Nanowaste Management. **2020**, 1-31	1
250	A High-resolution TEM Investigation of Nanoparticles in Soils. **2010**, 282-284	4
249	Introducing the Nano-world**2010**, 1-11	4
248	Coupling Techniques to Quantify Nanoparticles and to Characterize Their Interactions with Water Constituents. **2010**, 139-163	2
247	Nanomaterials in Civil Engineering. **2013**, 1039-1062	2
246	Field-Flow Fractionation Coupled to Inductively Coupled Plasma-Mass Spectrometry (FFF-ICP-MS): Methodology and Application to Environmental Nanoparticle Research. **2012**, 277-299	4
245	Nanoparticles and Marine Environment: An Overview. **2015**, 95-111	3
244	Application of Nanoparticles in Environmental Cleanup: Production, Potential Risks and Solutions. **2020**, 45-76	2
243	Nanoparticles in Plant Growth and Development. **2020**, 9-37	3
242	An Overview on the Effect of Soil Physicochemical Properties on the Immobilization of Biogenic Nanoparticles. **2020**, 133-160	2
241	Nanotechnology and Its Role in Agronomic Crops. **2019**, 605-636	1

240	3D geometric modeling analysis of contact probability effect in carbon black oxidation over MnOx-CeO2 catalysts. **2020**, 398, 125448		3
239	Assessing the cyto-genotoxic potential of model zinc oxide nanoparticles in the presence of humic-acid-like-polycondensate (HALP) and the leonardite HA (LHA). *Science of the Total Environment*, **2020**, 721, 137625	10.2	3
238	CHAPTER 7:Nanomaterials for Water Remediation. **2013**, 135-154		2
237	Single-Particle Inductively Coupled Plasma Mass Spectrometry: Gold Nanoparticles in Biological Fluids. **2014**, 1-7		2
236	Nanoparticles for Fuel Cell Applications. **2016**, 167-190		1
235	Uncovering the Physical and Chemical Properties of Nanominerals and Mineral Nanoparticles. **2012**, 45-74		1
234	Life Cycle Risks and Impacts of Nanotechnologies. **2013**, 213-278		3
233	Degradation of oxytetracycline by nano zero valent iron under UV-A irradiation: Chemical mechanism and kinetic. **2014**, 3, 29-43		1
232	Relating the Surface Properties of Superparamagnetic Iron Oxide Nanoparticles (SPIONs) to Their Bactericidal Effect towards a Biofilm of Streptococcus mutans. **2016**, 11, e0154445		31
231	Influence of humic acid and dihydroxy benzoic acid on the agglomeration, adsorption, sedimentation and dissolution of copper, manganese, aluminum and silica nanoparticles - A tentative exposure scenario. **2018**, 13, e0192553		16
230	Effects of Nanoparticles on the Environment and Outdoor Workplaces. **2013**, 5, 706-12		31
229	Carbon isotopes in wood combustion/pyrolysis products: experimental and molecular simulation approaches. **2019**, 46, 111-124		2
228	Particle sources and transport in stratified Nordic coastal seas in the Anthropocene. **2018**, 6,		7
227	A review of the current understanding of nanoparticles protein corona composition. **2020**, 93, 342-350		4
226	Cellular targets and mechanisms in the cytotoxic action of non-biodegradable engineered nanoparticles. **2013**, 14, 976-88		116
225	Silver nanoparticles with different concentrations and particle sizes affect the functional traits of wheat. 64, 1-8		6
224	Functionalized Magnetic Nanoparticles for Environmental Remediation. **2015**, 518-551		8
223	Toxic Effects of Engineered Nanoparticles on Living Cells. 35-68		1

222	Mechanisms of Action of Nanoparticles in Living Systems. **2018**, 220-236	5
221	Plastic Pollution and the Ecological Impact on the Aquatic Ecosystem. **2020**, 80-93	1
220	Nanometrology and its perspectives in environmental research. **2014**, 29, e2014016	5
219	Nano-sized zeolites as modulators of thiacloprid toxicity on. **2017**, 5, e3525	4
218	Modulation of cell uptake and cytotoxicity by nanoparticles with various physicochemical properties after humic acid adsorption.	1
217	Dust distribution from common minerals in the air of the Baikal Natural Territory. **2021**, 6, 309-318	
216	A Multidisciplinary Approach to Evaluate the Effects of Contaminants of Emerging Concern on Natural Freshwater and Brackish Water Phytoplankton Communities. **2021**, 10,	1
215	Phytoantioxidant Functionalized Nanoparticles: A Green Approach to Combat Nanoparticle-Induced Oxidative Stress. **2021**, 2021, 3155962	1
214	Exposure of Metal Oxide Nanoparticles on the Bioluminescence Process of and Recombinant Strains. **2021**, 11,	0
213	Nanoscale Materials Definition and Properties. **2008**, 11-32	
212	Environmental Fate and Transport. **2008**, 123-154	
211	Effects of Size of Metal Particles on Soil Microbial Community and Buck Wheat. **2011**, 20, 457-463	
210	Representation of Heterogeneity in "Single Collector Efficiency" Equation for Multi Walled Carbon Nanotubes.	
209	Microcosm Studies of Nanomaterials in Water and Soil Ecosystems. **2012**, 34, 288-294	1
208	Adsorption of SMX on CNTs as Affected by Environmental Conditions: Coexisted Organic Chemicals and DOM. **2013**, 779-782	
207	Epilogue. **2014**, 313-332	
206	Carbon nanomaterials in clean and contaminated soils: environmental implications and applications.	
205	Mobility of Carbon Nanomaterials in Soil Media. **2014**, 36, 588-595	

204	In-situ technologies for groundwater treatment: the case of arsenic. **2014**, 1-33	0
203	Nanoparticles as Alternative Pesticides: Concept, Manufacturing and Activities. **2015**, 43,	
202	Encyclopedia of Membranes. **2015**, 1-4	
201	Encyclopedia of Membranes. **2016**, 1992-1995	
200	Effects of Fullerene Nanocomposite in Marine and Estuarine Organisms. **2016**, 185-192	
199	Histopathological Markers in Fish Health Assessment. **2016**, 216-252	
198	Effect of Dispersion of Copper-Iodide Particles on the Electrical Properties of Composites Based on Polychlortrifluoroethylene. **2016**, 38, 647-656	
197	Toxic Effects of Engineered Nanoparticles on Living Cells. **2017**, 1394-1427	
196	Nano-Exposure Science: How Does Exposure to Engineered Nanomaterials Happen?. 343-362	
195	Functionalized Magnetic Nanoparticles for Environmental Remediation. **2017**, 705-741	1
194	Nano Particle as Artificial Food Additive Influence to Intestinal Bacterial Flora. **2017**, 54, 172-177	
193	Effects of Humic Acid on Aqueous Physicochemical Properties and Ecological Toxicity of Nano-Zirconium Oxide. **2017**, 07, 476-483	
192	Physiological effect of graphene oxide on tobacco BY-2 suspension cells and its immigration. **2017**, 11, 129-134	
191	Engineered Nanomaterials in the Environment, their Potential Fate and Behaviour and Emerging Techniques to Measure Them. **2018**, 1-15	
190	Comparison Study on the Effect of Nano and Bulk Titanium Dioxide Particles on Seeds Germination, Growth and Chemical Composition of Wheat Invitro and Invivo. **2018**, 28, 85	
189	Nanotechnology Interaction with Environment. **2019**, 2233-2256	2
188	Engineered Nanomaterials in the Environment, Their Potential Fate and Behavior and Emerging Techniques to Measure Them. **2019**, 2191-2204	
187	Toxicity of Nanomaterials in Plants and Environment. **2019**, 377-407	1

186	MOBILITY OF CERIUM DIOXIDE NANOPARTICLES IN SOILS AT DIFFERENT EXPOSURE SCENARIOS. **2019**, 85, 5-10		
185	Demir Atıklarının Nano Ölçekte Sıfır Değerlikli Demire Dönüştürülmesi: Hidroponik Sistemlerde Sebzelerin Verim ve Fizyolojik Özelliklerinin Geliştirilmesi İçin Bir Araştırma Yeşil Sistemde Brokoli Örneği 559-568		
184	Transition of Nanoparticles Fe_3O_4 and Al in a Simplified Aquatic Food Chain. **2019**, 5, 54-63		1
183	Pharmacokinetic Evaluation of Tc-radiolabeled Solid Lipid Nanoparticles and Chitosan Coated Solid Lipid Nanoparticles. **2019**, 20, 1044-1052		2
182	Nano-contaminants: Sources and Impact on Agriculture. **2020**, 175-199		
181	RETRACTED CHAPTER: Advances in Nanotechnology and Effects of Nanoparticles on Oxidative Stress Parameters. **2020**, 451-519		
180	Suspended multiwalled, acid-functionalized carbon nanotubes promote aggregation of the opportunistic pathogen Pseudomonas aeruginosa.		0
179	Green Synthesis, Characterization & Antibacterial Studies of Silver (Ag) and Zinc Oxide (Zno) Nanoparticles. **2020**, 14, 1999-2008		
178	Incubation media modify silver nanoparticle toxicity for whitefish () and roach () embryos. **2021**, 1-20		0
177	Groundwater remediation using zero-valent iron nanoparticles (nZVI). **2021**, 15, 100694		3
176	Contrasted fate of zinc sulfide nanoparticles in soil revealed by a combination of X-ray absorption spectroscopy, diffusive gradient in thin films and isotope tracing. *Environmental Pollution*, **2022**, 292, 118414	9.3	0
175	Nanotechnological modifications of nanoparticles on reactive oxygen and nitrogen species. **2020**, 449-488		
174	Can tree-ring chemistry be used to monitor atmospheric nanoparticle contamination over time?. **2022**, 268, 118781		1
173	Adsorption of serine at the anatase TiO/water interface: A combined ATR-FTIR and DFT study. *Science of the Total Environment*, **2022**, 807, 150839	10.2	1
172	Nanomaterials for Alternative Antibiotic Therapy. **2020**, 85-96		
171	RETRACTED CHAPTER: Pathways for Nanoparticle (NP)-Induced Oxidative Stress. **2020**, 285-328		
170	Mechanisms for nanoparticle-mediated oxidative stress. **2020**, 421-447		
169	Co-based Superalloy (Stellite 6) Powder with Added Nanoparticles to be Molten by PTA. 25,		

168	Nanotechnology and Plant Tissue Culture. **2020**, 23-35	1
167	Carbon Nanotube Metal Oxide Nanocomposites. **2020**, 73-154	
166	Interactions between zinc oxide nanoparticles and hexabromocyclododecane in simulated waters. **2021**, 102078	0
165	Manufacturing and Characterization of Carbon-Based Nanocomposite Membrane for Water Cleaning. **2021**, 387-402	0
164	Release and toxicity comparison between industrial- and sunscreen-derived nano-ZnO particles. **2016**, 13, 2485-2494	1
163	Références bibliographiques. **2014**, 487-496	
162	Growth-Promoting Gold Nanoparticles Decrease Stress Responses in Arabidopsis Seedlings.. **2021**, 11,	0
161	Recent advances on improved optical, thermal, and radiative characteristics of plasmonic nanofluids: Academic insights and perspectives. **2021**, 236, 111504	19
160	Effects of nanometer alumina and humic acid on the retention and transport of hexavalent chromium in porous media. **2021**, 228, 113005	0
159	Toxicity Aspects of Biologically Synthesized Nanoparticles. **2022**, 325-344	
158	Impact of nanoparticles and their ionic counterparts derived from heavy metals on the physiology of food crops.. **2022**, 172, 14-23	3
157	Sonochemical synthesis and characterization of aluminum tungsten oxide nanoparticle and study its impact on the growth of microalga. **2022**, 15, 103671	0
156	A mechanistic study of ciprofloxacin adsorption by goethite in the presence of silver and titanium dioxide nanoparticles.. **2022**, 118, 46-56	0
155	Heavy Metal Adsorption Using Magnetic Nanoparticles for Water Purification: A Critical Review.. **2021**, 14,	6
154	Potential use of a novel actinobacterial species to ameliorate tungsten nanoparticles induced oxidative damage in cereal crops.. **2021**, 171, 226-226	0
153	Characteristics of nanomaterials: composition, coating, size, shape, surface properties, physical properties (inorganic, polymeric). **2022**, 15-30	
152	Nanomaterial recycling: an overview. **2022**, 3-19	
151	The nanoscale: definitions. **2022**, 3-14	

150	Improvements to Load-Bearing Capacity and Settlement of Clay Soil after Adding Nano-Mgo and Fibers.	
149	Occurrences and impacts of engineered nanoparticles in soils and groundwater. **2022**, 165-204	
148	Effect of Nano-Silver on Formation of Marine Snow and the Underlying Microbial Mechanism.. **2022**,	1
147	Natural nanomaterials□icrobial exposure. **2022**, 49-61	
146	The effects of simulated acid rain and cadmium-containing atmospheric fine particulate matter on the pakchoi (Brassica campestris. L) seedlings growth and physiology. 1-12	0
145	Nanoparticles in soil. **2022**,	
144	Methods for design and fabrication of nanosensors. **2022**, 53-79	
143	Manufacture of nanomaterials□nvironmental exposure, toxicity, green synthesis, and sustainability. **2022**, 31-48	
142	A review on the fate and transport behavior of engineered nanoparticles: possibility of becoming an emerging contaminant in the groundwater. 1	1
141	Towards responsible science and technology: How nanotechnology research and development is shaping risk governance practices in Australia. **2022**, 9,	2
140	Applications, classification, potential routes, and adverse effects of nanomaterial as environmental contaminant/pollutant. **2022**, 45-55	
139	Sorption of Nanomaterials to Sandstone Rock.. **2022**, 12,	1
138	Influence of nano and bulk copper on agile frog development.. **2022**, 31, 357	
137	Use of nanotechnology for wastewater treatment: potential applications, advantages, and limitations. **2022**, 223-272	1
136	Integrative behavioral and ecotoxicological effects of nanoparticles. **2022**, 311-333	
135	Fate and transport of engineered nanoparticles in soils and groundwater. **2022**, 205-251	
134	Inhaled silica nanoparticles exacerbate atherosclerosis through skewing macrophage polarization towards M1 phenotype.. **2021**, 230, 113112	2
133	Molecular simulation of adsorption properties of thiol-functionalized titanium dioxide (TiO2) nanostructure for heavy metal ions removal from aqueous solution. **2022**, 346, 118281	0

132	Simultaneous Influence of Gradients in Natural Organic Matter and Abiotic Parameters on the Behavior of Silver Nanoparticles in the Transition Zone from Freshwater to Saltwater Environments.. **2022**, 12,		0
131	High-capacity amino-functionalized walnut shell for efficient removal of toxic hexavalent chromium ions in batch and column mode. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107292	6.8	1
130	Nanotechnology in aquaculture: Applications, perspectives and regulatory challenges. **2022**, 7, 185-200		3
129	Effect of CeO nanoparticles on plant growth and soil microcosm in a soil-plant interactive system.. *Environmental Pollution*, **2022**, 300, 118938	9.3	0
128	Application of bacterial bioflocculant for the synthesis of biocapped metal nanoparticles and their multifunctional features. **2022**, 155-192		
127	Nanowaste: Another Future Waste, Its Sources, Release Mechanism, and Removal Strategies in the Environment. **2022**, 14, 2041		4
126	Validation and Demonstration of an Atmosphere-Temperature-pH-Controlled Stirred Batch Reactor System for Determination of (Nano)Material Solubility and Dissolution Kinetics in Physiological Simulant Lung Fluids.. **2022**, 12,		0
125	Nanomaterials: Pros and Contras. **2011**, 13, 6-13		1
124	Catalytic and Medical Potential of a Phyto-Functionalized Reduced Graphene Oxide-Gold Nanocomposite Using Willow-Leaved Knotgrass.. **2021**, 6, 34954-34966		9
123	Ecotoxicity of Nanomaterials to Freshwater Microalgae and Fish. **2022**, 143-160		0
122	Predicting Electrophoretic Mobility of Tio2, Zno and Ceo2 Nanoparticles in Natural Waters: The Importance of Environment Descriptors in Nanoinformatics Models.		
121	Coupling magnetite and goethite nanoparticles with sorbent materials for olive mill wastewater remediation. **2022**, 5, 77-88		1
120	Nanomaterial-Augmented Formulation of Disinfectants and Antiseptics in Controlling SARS CoV-2.. **2022**, 1		0
119	Artificial Digestion of Polydisperse Copper Oxide Nanoparticles: Investigation of Effects on the Human In Vitro Intestinal Co-Culture Model Caco-2/HT29-MTX.. **2022**, 10,		0
118	Sustainable and Eco-safe Nanocellulose-based Materials for Water Nano -treatment. **2022**, 143-158		0
117	Colloidal stability and aggregation kinetics of nanocrystal CdSe/ZnS quantum dots in aqueous systems: Effects of ionic strength, electrolyte type, and natural organic matter. **2022**, 4, 1		2
116	Evaluation of Zebrafish DNA Integrity after Individual and Combined Exposure to TiO Nanoparticles and Lincomycin.. **2022**, 10,		
115	A review on the generation, discharge, distribution, environmental behavior, and toxicity (especially to microbial aggregates) of nano-TiO in sewage and surface-water and related research prospects.. *Science of the Total Environment*, **2022**, 824, 153866	10.2	0

114	The Application of Nanoparticles in Diagnosis and Treatment of Kidney Diseases.. **2021**, 23,	1
113	Effects of different treatments of silver nanoparticles (AgNPs) on the growth & physiological characteristics of lotus (Nelumbo nucifera). **2021**, 947, 012038	
112	The Impact of Magnetic Nanoparticles on Microbial Community Structure and Function in Rhizospheric Soils. **2022**, 1-25	
111	Nanostructured materials for water/wastewater remediation. **2022**, 413-432	
110	Environmental Fate of Metal Nanoparticles in Estuarine Environments. **2022**, 14, 1297	1
109	A short review on the preparation and use of iron nanomaterials for the treatment of pollutants in water and soil. **2022**, 5, 391	1
108	Transport of anatase and rutile titanium dioxide nanoparticles in soils in the presence of phosphate: mechanisms and numerical modeling. 1	
107	The emergence of nanotechnology in mitigating petroleum oil spills.. **2022**, 178, 113609	1
106	Image_1.PDF. **2018**,	
105	Data_Sheet_1.docx. **2020**,	
104	Data_Sheet_1.docx. **2020**,	
103	Data_Sheet_1.PDF. **2019**,	
102	Table_1.xlsx. **2020**,	
101	Table_2.xlsx. **2020**,	
100	The interaction mechanisms of co-existing polybrominated diphenyl ethers and engineered nanoparticles in environmental waters: A critical review. **2023**, 124, 227-252	0
99	Effects, uptake and translocation of Ag-based nanoparticles in plants. **2022**, 171-192	0
98	Techniques used to detect the presence of nanoparticles in treated plant tissues. **2022**, 359-371	
97	Contribution of Extracellular Polymeric Substances Fractions to the Adsorption of Silver Nanoparticles by Activated Sludge.	

96	Synthesis of photocatalytic pore size-tuned ZnO molecular foams.		1
95	Nanomaterial-plant interaction: Views on the pros and cons. **2022**, 47-68		
94	Application of chitosan nanoparticles in skin wound healing. **2022**,		5
93	An Overview of the Emergence and Challenges of Land Reclamation: Issues and Prospect. **2022**, 2022, 1-14		1
92	Graphene-Covered Silver Nanoisland Array Coupling with Hyperbolic Metamaterials for SERS Sensing.		1
91	The effects of pH, ionic strength, and natural organics on the transport properties of carbon nanotubes in saturated porous medium. **2022**, 647, 129025		0
90	Nano-pollution: Why it should worry us.. **2022**, 302, 134746		1
89	Environmental Emissions of Nanoparticles. **2022**, 245-279		
88	Light-induced electron transfer/phase migration of a redox mediator for photocatalytic C□ coupling in a biphasic solution. *Dalton Transactions*,	4.3	
87	Nanoparticles and Their Effects on Growth, Yield, and Crop Quality Cultivated Under Polluted Soil. **2022**, 333-352		
86	Genotoxic assessment of cerium and magnesium nanoparticles and their ionic forms in Eisenia hortensis coelomocytes by alkaline comet assay. *Microscopy Research and Technique*,	2.8	
85	Comparative toxicity of silver nanoparticles and silver nitrate in freshwater fish Oreochromis mossambicus: A multi-biomarker approach. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2022**, 109391	3.2	1
84	Strategic applications of nano-fertilizers for sustainable agriculture: Benefits and bottlenecks. *Nanotechnology Reviews*, **2022**, 11, 2123-2140	6.3	2
83	Alleviative effects of magnetic Fe3O4 nanoparticles on the physiological toxicity of 3-nitrophenol to rice (Oryza sativa L.) seedlings. *Open Life Sciences*, **2022**, 17, 626-640	1.2	1
82	Nanotechnology and green nano-synthesis for nano-bioremediation. **2022**, 843-856		
81	A comprehensive review on nanotechnology application in wastewater treatment a case study of metal-based using green synthesis. *Journal of Environmental Chemical Engineering*, **2022**, 108065	6.8	2
80	Mitigation of polycyclic aromatic hydrocarbon contaminated soil using microbes and nanoparticles: a review. *Pedosphere*, **2022**,	5	1
79	Silver Nanoparticles Synthesized Using Eichhornia crassipes Extract from Yuriria Lagoon, and the Perspective for Application as Antimicrobial Agent. *Crystals*, **2022**, 12, 814	2.3	

78	Predicting electrophoretic mobility of TiO2, ZnO, and CeO2 nanoparticles in natural waters: The importance of environment descriptors in nanoinformatics models. *Science of the Total Environment*, **2022**, 840, 156572	10.2	
77	Advancements in nanophyto formulations. **2022**, 103-132		
76	Nanomaterials for groundwater remediation. *Comprehensive Analytical Chemistry*, **2022**,	1.9	
75	Nanomaterials for construction building products designed to withstand natural disasters. **2022**, 19-42		0
74	Genotoxic potential of different nano-silver halides in cultured human lymphocyte cells. *Drug and Chemical Toxicology*, 1-13	2.3	
73	Ecosafety of Nanomaterials in the Aquatic Environment. **2022**, 19-57		
72	Effect of Laponite Nanoparticles on Growth Characteristics and Chlorophyll Content of Chlorella sp.. *Water, Air, and Soil Pollution*, **2022**, 233,	2.6	0
71	Insights on the Dynamics and Toxicity of Nanoparticles in Environmental Matrices. **2022**, 2022, 1-21		0
70	A review on biosurfactant producing bacteria for remediation of petroleum contaminated soils. **2022**, 12,		0
69	LCA of Nanomaterials for Bioremediation. **2022**, 413-431		
68	One-Step Synthesis of Nanostar Shaped Silver Nanoparticles and its Optical Stability. **2022**,		
67	Macrophage-mediated tissue response evoked by subchronic inhalation of lead oxide nanoparticles is associated with the alteration of phospholipases C and cholesterol transporters. **2022**, 19,		1
66	Experimental and Numerical Investigations of Using Nanoparticles in Groundwater Remediation.		
65	Graphene oxide influence in soil bacteria is dose dependent and changes at osmotic stress: growth variation, oxidative damage, antioxidant response, and plant growth promotion traits of a Rhizobium strain. 1-17		1
64	Aquatic organisms modulate the bioreactivity of engineered nanoparticles: focus on biomolecular corona. 4,		1
63	Contribution of extracellular polymeric substances fractions to the adsorption of silver nanoparticles by activated sludge. **2022**, 10, 108316		
62	The effects of co-exposures of Zea mays plant to the photon-upconversion nanoparticles; does the size or composition play an important role?. **2022**, 197, 106526		0
61	The emergence of metal oxide nanoparticles (NPs) as a phytomedicine: A two-facet role in plant growth, nano-toxicity and anti-phyto-microbial activity. **2022**, 155, 113658		2

60	Nanomaterials as Unique Carriers in Agricultural Practices for Plant Growth and Development: A State of Current Knowledge. **2022**, 281-314	0
59	Toxicology, Stability, and Recycling of Organic–Inorganic Nanohybrids. **2022**, 485-497	0
58	Single and Combined Toxicity Effects of Zinc Oxide Nanoparticles: Uptake and Accumulation in Marine Microalgae, Toxicity Mechanisms, and Their Fate in the Marine Environment. **2022**, 14, 2669	0
57	Risk Assessment of Emerging Water Pollutants. **2022**, 119-143	0
56	Fate of Emerging Water Pollutants. **2022**, 144-177	0
55	Toxic and bioaccumulative effects of zinc nanoparticle exposure to goldfish, Carassius auratus (Linnaeus, 1758). 1-11	0
54	Dynamics and enzymatic degradation of exopolymer particles under increasing concentrations of silver ions and nanoparticles during a marine mesocosm experiment. 9,	0
53	Ascorbate Supplementation: A Blessing in Disguise for Tomato Seedlings Exposed to NiO Nanoparticles. **2022**, 12, 1546	0
52	Combusted-diesel additives containing CeO2 nanomaterials shape methanogenic pathways during sludge digestion and enhance biogas production.	1
51	The Impact of Magnetic Nanoparticles on Microbial Community Structure and Function in Rhizospheric Soils. **2022**, 949-973	0
50	Novel Implications of Nanoparticle-Enhanced Radiotherapy and Brachytherapy: Z-Effect and Tumor Hypoxia. **2022**, 12, 943	1
49	Exposure to low levels of photocatalytic TiO2 nanoparticles enhances seed germination and seedling growth of amaranth and cruciferous vegetables. **2022**, 12,	0
48	Novel insights into acute/chronic genotoxic impact of exposure to tungsten oxide nanoparticles on Drosophila melanogaster. **2022**, 24,	0
47	The Widespread Use of Nanomaterials: The Effects on the Function and Diversity of Environmental Microbial Communities. **2022**, 10, 2080	0
46	Neurotoxic effects of different sizes of plastics (nano, micro, and macro) on juvenile common carp (Cyprinus carpio). 15,	0
45	Toxicity of nanomixtures to human macrophages: Joint action of silver and polystyrene nanoparticles. **2022**, 368, 110225	0
44	Bioinspired metal/metal oxide nanoparticles: A road map to potential applications. **2022**, 16, 100314	5
43	Recent progresses, challenges, and opportunities of carbon-based materials applied in heavy metal polluted soil remediation. **2023**, 856, 158810	3

42	Assessment of the SnO2 nanoparticles impact on the growth of Picochlorum maculatum algae.	0
41	Biological Effects of AgNPs on Crop Plants: Environmental Implications and Agriculture Applications.	0
40	Fate and toxicity of nanoparticles in aquatic systems.	0
39	Microbial community shifts induced by plastic and zinc as substitutes of tire abrasion. **2022**, 12,	0
38	Characteristics of tin oxide nanoparticles produced by pulsed laser ablation technique in various concentrations of chitosan liquid and their potential application as an antibacterial agent. **2022**, 16, 100742	0
37	Classification and Quantification of Major Water Pollutants. **2022**, 127-179	0
36	Nanotechnology for sustainable agro-food systems: The need and role of nanoparticles in protecting plants and improving crop productivity. **2023**, 194, 533-549	4
35	Nanoplastics exposure induces vascular malformation by interfering with the VEGFA/VEGFR pathway in zebrafish (Danio rerio). **2023**, 312, 137360	0
34	Environmental implications of nanoceramic applications. **2023**, 5, 100724	0
33	Quantifying fluorescent nanoparticle uptake in mammalian cells using a plate reader. **2022**, 12,	0
32	Uptake of Engineered Metallic Nanoparticles in Soil by Lettuce in Single and Binary Nanoparticle Systems. **2022**, 10, 16692-16700	0
31	Regulatory and toxicological perspectives of carbon nanomaterials. **2023**, 483-503	0
30	Interaction of nanoparticles and nanocomposite with plant and environment. **2023**, 161-193	0
29	Interactions between cerium dioxide nanoparticles and arsenite change their biological fate in the gastrointestinal tract of mice.	0
28	Nanomaterials in the environment: impacts and challenges. **2023**, 389-414	0
27	Damage Effect of Amorphous Carbon Black Nanoparticle Aggregates on Model Phospholipid Membranes: Surface Charge, Exposure Concentration and Time Dependence. **2023**, 20, 2999	0
26	Distribution of Silver (Ag) and Silver Nanoparticles (AgNPs) in Aquatic Environment. **2023**, 15, 1349	0
25	Nanomaterials in agriculture for plant health and food safety: a comprehensive review on the current state of agro-nanoscience. **2023**, 13,	0

24	Bionanomaterials to avoid the environmental hazards of conventional nanoparticles. **2023**, 37-56	0
23	Toxicological concerns of nanomaterials on agricultural soil fertility and environment. **2023**, 387-406	0
22	Hazardous effects of nanomaterials on aquatic life. **2023**, 423-450	0
21	Recent advances on nanotechnology-driven strategies for remediation of microplastics and nanoplastics from aqueous environments. **2023**, 52, 103543	0
20	Uranium adsorption property of carboxylated tubular carbon nanofibers enhanced chitosan microspheres. **2023**, 133-152	0
19	Structural parameters of nanoparticles affecting their toxicity for biomedical applications: a review. **2023**, 25,	0
18	Introduction of Metal Nanoparticles, Dental Applications, and Their Effects. **2023**, 23-52	0
17	Nanoparticles Enhance Plant Resistance to Abiotic Stresses: A Bibliometric Statistic. **2023**, 13, 729	0
16	Zinc oxide nanoparticles induce oxidative stress, genotoxicity, and apoptosis in the hemocytes of Bombyx mori larvae. **2023**, 13,	0
15	Perspectives of nanomaterials in microbial remediation of heavy metals and their environmental consequences: A review. 1-48	0
14	Methacrylate Cationic Nanoparticles Activity against Different Gram-Positive Bacteria. **2023**, 12, 533	0
13	Current applications and future impact of machine learning in emerging contaminants: A review. 1-19	0
12	Acute toxicity of titanium dioxide microparticles in Artemia sp. nauplii instar I and II.	0
11	Effects of carnosine on the embryonic development and TiO2 nanoparticles-induced oxidative stress on Zebrafish. 10,	0
10	Nano materials employed in solar distillation device: A mini review. **2023**,	0
9	A Comparative Study on Responses of Soil under Three Typical Nanoparticles Exposure: Enzyme Activities and Microbial Community Structure. **2023**, 234,	0
8	Optimization of Nanoparticle Collection by a Pilot-Scale Spray Scrubber Operated Under Waste Incineration Conditions: Using BoxBehnken Design.	0
7	Seasonal occurrence and fate of nanoparticles in two biological wastewater treatment plants in Southern California. **2023**, 95,	0

6	Block copolymers as dispersants for nanomaterial added to fuel. **2023**, 376, 04014	0
5	Fascinating strategies of marine benthic organisms to cope with emerging pollutant: Titanium dioxide nanoparticles. **2023**, 121538	0
4	Transport of Thiophanate Methyl in Porous Media in the Presence of Titanium Dioxide Nanoparticles. **2023**, 15, 1415	0
3	Does the doping strategy of ferrite nanoparticles create a correlation between reactivity and toxicity?.	0
2	Green fabrication of silver nanoparticles using Melia azedarach ripened fruit extract, their characterization, and biological properties. **2023**, 12,	0
1	A State-of-Art Review of the Metal Oxide-Based Nanomaterials Effect on Photocatalytic Degradation of Malachite Green Dyes and a Bibliometric Analysis.	0