

Jae-Min Oh

List of Publications by Year in descending order

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117
papers

4,939
citations

109264

35
h-index

98753

67
g-index

121
all docs

121
docs citations

121
times ranked

4872
citing authors

#	ARTICLE	IF	CITATIONS
1	Clay minerals and layered double hydroxides for novel biological applications. <i>Applied Clay Science</i> , 2007, 36, 122-132.	2.6	558
2	Layered double hydroxide as an efficient drug reservoir for folate derivatives. <i>Biomaterials</i> , 2004, 25, 3059-3064.	5.7	401
3	The effect of synthetic conditions on tailoring the size of hydrotalcite particles. <i>Solid State Ionics</i> , 2002, 151, 285-291.	1.3	267
4	Cellular Uptake Mechanism of an Inorganic Nanovehicle and Its Drug Conjugates: Enhanced Efficacy Due To Clathrin-Mediated Endocytosis. <i>Bioconjugate Chemistry</i> , 2006, 17, 1411-1417.	1.8	224
5	Controlled release of donepezil intercalated in smectite clays. <i>International Journal of Pharmaceutics</i> , 2008, 359, 198-204.	2.6	202
6	Layered nanomaterials for green materials. <i>Journal of Materials Chemistry</i> , 2009, 19, 2553.	6.7	198
7	Inorganic Drug Delivery Nanovehicle Conjugated with Cancer Specific Ligand. <i>Advanced Functional Materials</i> , 2009, 19, 1617-1624.	7.8	184
8	Inorganic Metal Hydroxide Nanoparticles for Targeted Cellular Uptake Through Clathrin-Mediated Endocytosis. <i>Chemistry - an Asian Journal</i> , 2009, 4, 67-73.	1.7	174
9	Efficient delivery of anticancer drug MTX through MTX-LDH nanohybrid system. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1024-1027.	1.9	155
10	Layered double hydroxide as novel antibacterial drug delivery system. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 685-688.	1.9	102
11	Human-related application and nanotoxicology of inorganic particles: complementary aspects. <i>Journal of Materials Chemistry</i> , 2008, 18, 615-620.	6.7	101
12	Anticancer drug encapsulated in inorganic lattice can overcome drug resistance. <i>Journal of Materials Chemistry</i> , 2010, 20, 9463.	6.7	93
13	Anticancer drug-layered hydroxide nanohybrids as potent cancer chemotherapy agents. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1528-1532.	1.9	91
14	Biocompatible Nanoparticles Intercalated with Anticancer Drug for Target Delivery: Pharmacokinetic and Biodistribution Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2913-2916.	0.9	78
15	Electrophoretically prepared hybrid materials for biopolymer hydrogel and layered ceramic nanoparticles. <i>Biomaterials Research</i> , 2016, 20, 1.	3.2	76
16	Emerging nanomaterials with advanced drug delivery functions; focused on methotrexate delivery. <i>Coordination Chemistry Reviews</i> , 2018, 359, 32-51.	9.5	75
17	Intracrystalline structure of DNA molecules stabilized in the layered double hydroxide. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1028-1031.	1.9	73
18	Safety Aspect of Inorganic Layered Nanoparticles: Size-Dependency <i>In Vitro</i> and <i>In Vivo</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5297-5301.	0.9	73

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19	Biokinetics of food additive silica nanoparticles and their interactions with food components. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 384-392.	2.5	71
20	LDH Nanocontainers as Bio-Reservoirs and Drug Delivery Carriers. <i>Recent Patents on Nanotechnology</i> , 2012, 6, 200-217.	0.7	68
21	Immunotoxicity of titanium dioxide nanoparticles via simultaneous induction of apoptosis and multiple toll-like receptors signaling through ROS-dependent SAPK/JNK and p38 MAPK activation. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 6735-6750.	3.3	57
22	Surface treatment of silica nanoparticles for stable and charge-controlled colloidal silica. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 2, 29.	3.3	54
23	Synthesis of hydrotalcite type layered double hydroxide with various Mg/Al ratio and surface charge under controlled reaction condition. <i>Applied Clay Science</i> , 2016, 134, 44-49.	2.6	54
24	Integrated bio-inorganic hybrid systems for nano-forensics. <i>Chemical Society Reviews</i> , 2011, 40, 583-595.	18.7	52
25	Anticancer Drug-Inorganic Nanohybrid and Its Cellular Interaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3700-3705.	0.9	50
26	A nanostructured Ni/graphene hybrid for enhanced electrochemical hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2014, 610, 231-235.	2.8	47
27	Lack of genotoxic potential of ZnO nanoparticles in in vitro and in vivo tests. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014, 761, 1-9.	0.9	47
28	Intracellular Drug Delivery of Layered Double Hydroxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1632-1635.	0.9	44
29	Synthesis of a mesoporous Mg-Al mixed metal oxide with P123 template for effective removal of Congo red via aggregation-driven adsorption. <i>Journal of Solid State Chemistry</i> , 2021, 293, 121758.	1.4	42
30	Effect of particle size and local disorder on specific surface area of layered double hydroxides upon calcination-reconstruction. <i>Journal of Solid State Chemistry</i> , 2018, 263, 60-64.	1.4	41
31	Biocompatible ceramic nanocarrier for drug delivery with high efficiency. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 543-549.	0.5	40
32	Cytotoxicity, Uptake Behaviors, and Oral Absorption of Food Grade Calcium Carbonate Nanomaterials. <i>Nanomaterials</i> , 2015, 5, 1938-1954.	1.9	38
33	Cellular Toxicity of Inorganic Hydroxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4017-4020.	0.9	36
34	Colloidal behaviors of ZnO nanoparticles in various aqueous media. <i>Toxicology and Environmental Health Sciences</i> , 2012, 4, 121-131.	1.1	36
35	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. <i>Biomaterials</i> , 2017, 149, 12-28.	5.7	36
36	Encapsulation of Flavor Molecules, 4-Hydroxy-3-Methoxy Benzoic Acid, into Layered Inorganic Nanoparticles for Controlled Release of Flavor. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5018-5021.	0.9	34

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37	Isomorphous substitution of divalent metal ions in layered double hydroxides through a soft chemical hydrothermal reaction. <i>Dalton Transactions</i> , 2014, 43, 10430.	1.6	33
38	The fate of calcium carbonate nanoparticles administered by oral route: absorption and their interaction with biological matrices. <i>International Journal of Nanomedicine</i> , 2015, 10, 2273.	3.3	33
39	Titanium Dioxide Nanoparticle-Biomolecule Interactions Influence Oral Absorption. <i>Nanomaterials</i> , 2016, 6, 225.	1.9	33
40	Anticancer Drug-Incorporated Layered Double Hydroxide Nanohybrids and Their Enhanced Anticancer Therapeutic Efficacy in Combination Cancer Treatment. <i>BioMed Research International</i> , 2014, 2014, 1-11.	0.9	31
41	Intracrystalline structure and release pattern of ferulic acid intercalated into layered double hydroxide through various synthesis routes. <i>Applied Clay Science</i> , 2015, 112-113, 32-39.	2.6	31
42	Physicochemical properties of surface charge-modified ZnO nanoparticles with different particle sizes. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 2, 41.	3.3	30
43	Drug-Embedded Ceramic 2-Dimensional Nanoassemblies for Drug Delivery System in Physiological Condition. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2758-2765.	1.9	29
44	In Vivo Anticancer Activity of Methotrexate-loaded Layered Double Hydroxide Nanoparticles. <i>Current Pharmaceutical Design</i> , 2013, 19, 7196-7202.	0.9	27
45	Polymer Coated CaAl-Layered Double Hydroxide Nanomaterials for Potential Calcium Supplement. <i>International Journal of Molecular Sciences</i> , 2014, 15, 22563-22579.	1.8	25
46	Size- and surface charge-controlled layered double hydroxides for efficient algal flocculation. <i>Environmental Science: Nano</i> , 2018, 5, 183-190.	2.2	24
47	Gadolinium (III) Diethylenetriamine Pentaacetic Acid/Layered Double Hydroxide Nanohybrid as Novel T ₁ -Magnetic Resonant Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5181-5184.	0.9	23
48	Radioisotope Co-57 incorporated layered double hydroxide nanoparticles as a cancer imaging agent. <i>RSC Advances</i> , 2016, 6, 48415-48419.	1.7	23
49	Layered Double Hydroxide Nanomaterials Encapsulating Angelica gigas Nakai Extract for Potential Anticancer Nanomedicine. <i>Frontiers in Pharmacology</i> , 2018, 9, 723.	1.6	22
50	Mixed Metal Oxide by Calcination of Layered Double Hydroxide: Parameters Affecting Specific Surface Area. <i>Nanomaterials</i> , 2021, 11, 1153.	1.9	21
51	Surface functionalization-specific binding of coagulation factors by zinc oxide nanoparticles delays coagulation time and reduces thrombin generation potential in vitro. <i>PLoS ONE</i> , 2017, 12, e0181634.	1.1	20
52	Layered Metal Hydroxides Containing Calcium and Their Structural Analysis. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 1845-1850.	1.0	20
53	Nanohybrids of edible dyes intercalated in ZnAl layered double hydroxides. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1547-1551.	1.9	19
54	Anticancer Activity of Ferulic Acid-Inorganic Nanohybrids Synthesized via Two Different Hybridization Routes, Reconstruction and Exfoliation-Reassembly. <i>Scientific World Journal</i> , The, 2013, 2013, 1-9.	0.8	19

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55	Radioisotope and anticancer agent incorporated layered double hydroxide for tumor targeting theranostic nanomedicine. <i>Applied Clay Science</i> , 2020, 186, 105454.	2.6	18
56	Systematic utilization of layered double hydroxide nanosheets for effective removal of methyl orange from an aqueous system by π - π stacking-induced nanoconfinement. <i>Journal of Environmental Management</i> , 2021, 277, 111455.	3.8	18
57	Boosting the anticancer activity of doxorubicin with a layered double hydroxide nanocarrier. <i>Applied Clay Science</i> , 2021, 203, 106000.	2.6	18
58	Dual nutraceutical nanohybrids of folic acid and calcium containing layered double hydroxides. <i>Journal of Solid State Chemistry</i> , 2016, 233, 125-132.	1.4	17
59	A novel synthesis of an Fe ³⁺ /Fe ²⁺ layered double hydroxide (â€˜green rustâ€™) via controlled electron transfer with a conducting polymer. <i>Dalton Transactions</i> , 2017, 46, 7656-7659.	1.6	17
60	Stable fluorescence conjugation of ZnO nanoparticles and their size dependent cellular uptake. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 870-877.	2.5	16
61	Incorporation of Glycine max Merrill Extract into Layered Double Hydroxide through Ion-Exchange and Reconstruction. <i>Nanomaterials</i> , 2019, 9, 1262.	1.9	16
62	Electrophoretic Preparation of an Organicâ€“Inorganic Hybrid of Layered Metal Hydroxide and Hydrogel for a Potential Drugâ€“Delivery System. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5269-5275.	1.0	15
63	Controlled Growth of Silver Oxide Nanoparticles on the Surface of Citrate Anion Intercalated Layered Double Hydroxide. <i>Nanomaterials</i> , 2021, 11, 455.	1.9	15
64	Nano-Bio Interaction between Graphite Oxide Nanoparticles and Human Blood Components. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5343-5349.	1.0	14
65	Physico-chemical changes of ZnO nanoparticles with different size and surface chemistry under physiological pH conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 127, 137-142.	2.5	14
66	Zn-Fe mixed metal oxides from metal hydroxide precursor: Effect of calcination temperature on phase evolution, porosity, and catalytic acidity. <i>Journal of Solid State Chemistry</i> , 2019, 269, 454-458.	1.4	14
67	Cytotoxicity, Intestinal Transport, and Bioavailability of Dispersible Iron and Zinc Supplements. <i>Frontiers in Microbiology</i> , 2017, 8, 749.	1.5	13
68	Particle size effect of layered double hydroxide on the porosity of calcined metal oxide. <i>Applied Clay Science</i> , 2020, 195, 105701.	2.6	13
69	Hybridization Between Natural Extract of <i>Angelica gigas</i> Nakai and Inorganic Nanomaterial of Layered Double Hydroxide via Reconstruction Reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1138-1145.	0.9	12
70	Phase Transformation from Brucite to Highly Crystalline Layered Double Hydroxide through a Combined Dissolutionâ€“Reprecipitation and Substitution Mechanism. <i>Crystal Growth and Design</i> , 2018, 18, 5398-5405.	1.4	12
71	Selective DNA Adsorption on Layered Double Hydroxide Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 2217-2221.	1.0	12
72	Nano-biohybrids of engineered nanoclays and natural extract for antibacterial agents. <i>Applied Clay Science</i> , 2016, 134, 19-25.	2.6	11

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73	Hierarchical nanostructure of RuO ₂ hollow spheres with enhanced lithium ion storage and cyclic performance. <i>Journal of Alloys and Compounds</i> , 2017, 711, 611-616.	2.8	11
74	Zingiber officinale Extract (ZOE) Incorporated with Layered Double Hydroxide Hybrid through Reconstruction to Preserve Antioxidant Activity of ZOE against Ultrasound and Microwave Irradiation. <i>Nanomaterials</i> , 2019, 9, 1281.	1.9	11
75	Nanocomposites of Magnetite and Layered Double Hydroxide for Recyclable Chromate Removal. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10.	1.5	10
76	Inorganic-Polymer Core-Shell with Gadolinium Complex for Switching on/off CT/MRI Dual Detection System of Cancer Cells upon pH Change. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 28-36.	2.9	10
77	Topology dependent modification of layered double hydroxide for therapeutic and diagnostic platform. <i>Advanced Drug Delivery Reviews</i> , 2022, 188, 114459.	6.6	10
78	Facile Synthetic Route To Prepare Ultrathin Silver Nanosheets by Reducing Silver Thiolates in Interlayer Surface of Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2020, 59, 2163-2170.	1.9	9
79	Physicochemical Properties and Hematocompatibility of Layered Double Hydroxide-Based Anticancer Drug Methotrexate Delivery System. <i>Pharmaceutics</i> , 2020, 12, 1210.	2.0	9
80	Finely crafted quasi-core-shell gadolinium/layered double hydroxide hybrids for switching on/off bimodal CT/MRI contrasting nanodiagnostic platforms. <i>RSC Advances</i> , 2020, 10, 5838-5844.	1.7	9
81	Advances in the Synthesis and Application of Anti-Fouling Membranes Using Two-Dimensional Nanomaterials. <i>Membranes</i> , 2021, 11, 605.	1.4	9
82	Interlayer Structure of Bioactive Molecule, 2-Aminoethanesulfonate, Intercalated into Calcium-Containing Layered Double Hydroxides. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-7.	1.5	8
83	Composites of Quasi-Colloidal Layered Double Hydroxide Nanoparticles and Agarose Hydrogels for Chromate Removal. <i>Nanomaterials</i> , 2016, 6, 25.	1.9	8
84	Physico-Chemical Interaction between Clay Minerals and Albumin Protein according to the Type of Clay. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 396.	0.8	8
85	Hierarchical Ag Nanostructures Fabricated from Silver Coordination Polymers for Antibacterial Surface. <i>Polymers</i> , 2019, 11, 155.	2.0	8
86	Surface roughness effect on the cellular uptake of layered double hydroxide nanoparticles. <i>Applied Clay Science</i> , 2021, 202, 105992.	2.6	8
87	Hematocompatibility and Interaction of Layered Double Hydroxide Nanomaterials with Plasma Proteins. <i>Science of Advanced Materials</i> , 2014, 6, 1582-1589.	0.1	8
88	Physicochemical analysis methods for nanomaterials considering their toxicological evaluations. <i>Molecular and Cellular Toxicology</i> , 2014, 10, 347-360.	0.8	7
89	Size and surface charge effect of layered double hydroxide particles upon blood cells. <i>Applied Clay Science</i> , 2022, 225, 106549.	2.6	7
90	Organization of research team for nano-associated safety assessment in effort to study nanotoxicology of zinc oxide and silica nanoparticles. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 2, 3.	3.3	6

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91	Synthesis of Ni/Graphene Nanosheets via Electron Beam Irradiation and Their Enhanced Electrochemical Hydrogen Storage Properties. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 2627-2631.	1.0	6
92	Random array of inorganic nanoparticles on polymer surface for anti-biofouling property through cost-effective and high-performance dip-coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110788.	2.5	6
93	Porous Hybrids Structure between Silver Nanoparticle and Layered Double Hydroxide for Surface-Enhanced Raman Spectroscopy. <i>Nanomaterials</i> , 2021, 11, 447.	1.9	5
94	Development of Mesopore Structure of Mixed Metal Oxide through Albumin-Templated Coprecipitation and Reconstruction of Layered Double Hydroxide. <i>Nanomaterials</i> , 2021, 11, 620.	1.9	5
95	Substrate templated synthesis of single-phase and uniform Zr-porphyrin-based metal-organic frameworks. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 221-231.	3.0	5
96	Synthesis and Structural Analysis of Ternary Ca-Al-Fe Layered Double Hydroxides with Different Iron Contents. <i>Crystals</i> , 2021, 11, 1296.	1.0	5
97	Layered Nanomaterials for Environmental Remediation Applications. <i>Energy and Environment Focus</i> , 2014, 3, 23-36.	0.3	4
98	Investigation of membrane condensation induced by CaCO ₃ nanoparticles and its effect on membrane protein function. <i>RSC Advances</i> , 2017, 7, 49858-49862.	1.7	4
99	Silver nanoplate-pillared mesoporous nano-clays for surface enhanced raman scattering. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 89, 250-256.	2.9	4
100	Periodic charge matching driven immobilization of gentamicin in nanoclays for stable and long-term antibacterial coating. <i>Dalton Transactions</i> , 2021, 50, 14216-14222.	1.6	4
101	Controlled supramolecular structure of guanosine monophosphate in the interlayer space of layered double hydroxide. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1928-1935.	1.5	3
102	Controlled drug release in silicone adhesive utilizing particulate additives. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1600-1603.	1.2	3
103	Ethylene Scavenging Ability of Permanganate Incorporated Nanoclays. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3576-3580.	0.9	3
104	Synthetic mineral containing Sr, Ca, and Fe and its hybridization with soybean extract for synergetic bone regeneration. <i>Materials Chemistry and Physics</i> , 2020, 255, 123620.	2.0	3
105	Encapsulation and Release Control of Fish Pathogen Utilizing Cross-Linked Alginate Networks and Clay Nanoparticles for Use with a Potential Oral Vaccination. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2679.	1.3	3
106	Facile Synthetic Route to a Nitrogen-Doped Titanium Oxide with Enhanced Photoelectrochemical Property via Proton Beam Irradiation. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 556-560.	1.0	2
107	Controlled Crystal Growth of Two-Dimensional Layered Nanomaterials in Hydrogel via a Modified Electrical Double Migration Method. <i>Crystal Growth and Design</i> , 2017, 17, 6596-6602.	1.4	2
108	Fibrous Silver Particles Prepared from Layered Silver Alkanethiolates and Their Catalytic Property. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3581-3587.	0.9	2

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109	LAYERED DOUBLE HYDROXIDE-BASED MRI/CT DUAL MODAL CONTRASTING AGENT WITH HOMOGENEOUS PARTICLE SIZE. <i>Clays and Clay Minerals</i> , 2021, 69, 425.	0.6	2
110	Cold sintering yields first layered double hydroxides (LDH) monolithic materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 280, 115704.	1.7	2
111	Hybridization of Layered Iron Hydroxide Nanoclays and Conducting Polymer for Controlled Oxygen Scavenger. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1742.	1.3	1
112	SUSTAINED ANTIBACTERIAL EFFECT OF LEVOFLOXACIN DRUG IN A POLYMER MATRIX BY HYBRIDIZATION WITH A LAYERED DOUBLE HYDROXIDE. <i>Clays and Clay Minerals</i> , 0, , 1.	0.6	1
113	Incorporation of Antibacterial Natural Extract into Layered Double Hydroxide through Memory Effect for Antibacterial Materials. <i>Ceramist</i> , 2019, 22, 301-315.	0.0	1
114	Homogeneous Incorporation of Gallium into Layered Double Hydroxide Lattice for Potential Radiodiagnostics: Proof-of-Concept. <i>Nanomaterials</i> , 2021, 11, 44.	1.9	1
115	2P574 Bio-organic-inorganic ternary nanohybrids for DNA-barcode system(53. Bioengineering,Poster) Tj ETQq1 1 0.784314 rgBT /Ove	0.0	0
116	Morphology dependent biological behavior of calcite materials. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 596-600.	0.5	0
117	Controlling surface dipole via applying current through conductive polyurethane-based organic/inorganic film to prohibit biofouling. <i>Progress in Organic Coatings</i> , 2022, 165, 106717.	1.9	0