

Mukesh Kumar Awasthi

List of Publications by Citations

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244 papers	8,619 citations	49 h-index	82 g-index
262 ext. papers	11,661 ext. citations	6.8 avg, IF	6.9 L-index

#	Paper	IF	Citations
244	Challenges and opportunities in the phytoremediation of heavy metals contaminated soils: A review. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 126, 111-121	7	623
243	Enhancing phosphate adsorption by Mg/Al layered double hydroxide functionalized biochar with different Mg/Al ratios. <i>Science of the Total Environment</i> , 2016 , 559, 121-129	10.2	308
242	Evaluation of medical stone amendment for the reduction of nitrogen loss and bioavailability of heavy metals during pig manure composting. <i>Bioresource Technology</i> , 2016 , 220, 297-304	11	212
241	Recovery of phosphate from aqueous solution by magnesium oxide decorated magnetic biochar and its potential as phosphate-based fertilizer substitute. <i>Bioresource Technology</i> , 2016 , 215, 209-214	11	198
240	Evaluation of thermophilic fungal consortium for organic municipal solid waste composting. <i>Bioresource Technology</i> , 2014 , 168, 214-21	11	195
239	Bioengineering of anaerobic digestion for volatile fatty acids, hydrogen or methane production: A critical review. <i>Bioengineered</i> , 2019 , 10, 437-458	5.7	189
238	Heterogeneity of biochar amendment to improve the carbon and nitrogen sequestration through reduce the greenhouse gases emissions during sewage sludge composting. <i>Bioresource Technology</i> , 2017 , 224, 428-438	11	167
237	Resource recovery and circular economy from organic solid waste using aerobic and anaerobic digestion technologies. <i>Bioresource Technology</i> , 2020 , 301, 122778	11	152
236	Spatial distribution and risk assessment of heavy metals in soil near a Pb/Zn smelter in Feng County, China. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 139, 254-262	7	150
235	Recent developments in biochar utilization as an additive in organic solid waste composting: A review. <i>Bioresource Technology</i> , 2017 , 246, 203-213	11	149
234	Co-composting of gelatin industry sludge combined with organic fraction of municipal solid waste and poultry waste employing zeolite mixed with enriched nitrifying bacterial consortium. <i>Bioresource Technology</i> , 2016 , 213, 181-189	11	126
233	Co-composting of organic fraction of municipal solid waste mixed with different bulking waste: characterization of physicochemical parameters and microbial enzymatic dynamic. <i>Bioresource Technology</i> , 2015 , 182, 200-207	11	124
232	Effect of biochar amendment on greenhouse gas emission and bio-availability of heavy metals during sewage sludge co-composting. <i>Journal of Cleaner Production</i> , 2016 , 135, 829-835	10.3	123
231	Role of biochar amendment in mitigation of nitrogen loss and greenhouse gas emission during sewage sludge composting. <i>Bioresource Technology</i> , 2016 , 219, 270-280	11	123
230	Influence of zeolite and lime as additives on greenhouse gas emissions and maturity evolution during sewage sludge composting. <i>Bioresource Technology</i> , 2016 , 216, 172-81	11	122
229	High-efficiency removal of Pb(II) and humate by a CeO-MoS hybrid magnetic biochar. <i>Bioresource Technology</i> , 2019 , 273, 335-340	11	115
228	Combining biochar, zeolite and wood vinegar for composting of pig manure: The effect on greenhouse gas emission and nitrogen conservation. <i>Waste Management</i> , 2018 , 74, 221-230	8.6	113

227	Recovery of phosphate and dissolved organic matter from aqueous solution using a novel CaO-MgO hybrid carbon composite and its feasibility in phosphorus recycling. <i>Science of the Total Environment</i> , 2018 , 642, 526-536	10.2	106
226	A critical review of organic manure biorefinery models toward sustainable circular bioeconomy: Technological challenges, advancements, innovations, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 111, 115-131	16.2	105
225	Use of Biochar as an Amendment for Remediation of Heavy Metal-Contaminated Soils: Prospects and Challenges. <i>Pedosphere</i> , 2017 , 27, 991-1014	5	103
224	New insight with the effects of biochar amendment on bacterial diversity as indicators of biomarkers support the thermophilic phase during sewage sludge composting. <i>Bioresource Technology</i> , 2017 , 238, 589-601	11	101
223	Refining biomass residues for sustainable energy and bio-products: An assessment of technology, its importance, and strategic applications in circular bio-economy. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 127, 109876	16.2	98
222	Evaluation of biochar amended biosolids co-composting to improve the nutrient transformation and its correlation as a function for the production of nutrient-rich compost. <i>Bioresource Technology</i> , 2017 , 237, 156-166	11	95
221	Improvement of biochar and bacterial powder addition on gaseous emission and bacterial community in pig manure compost. <i>Bioresource Technology</i> , 2018 , 258, 195-202	11	95
220	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. <i>Science of the Total Environment</i> , 2021 , 751, 141599	10.2	93
219	Improving pig manure composting efficiency employing Ca-bentonite. <i>Ecological Engineering</i> , 2016 , 87, 157-161	3.9	89
218	Effect of pyrolysis temperature on chemical form, behavior and environmental risk of Zn, Pb and Cd in biochar produced from phytoremediation residue. <i>Bioresource Technology</i> , 2018 , 249, 487-493	11	85
217	Improvement of pig manure compost lignocellulose degradation, organic matter humification and compost quality with medical stone. <i>Bioresource Technology</i> , 2017 , 243, 771-777	11	77
216	Influence of clay as additive on greenhouse gases emission and maturity evaluation during chicken manure composting. <i>Bioresource Technology</i> , 2018 , 266, 82-88	11	77
215	Effects of microbial culture and chicken manure biochar on compost maturity and greenhouse gas emissions during chicken manure composting. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121908	12.8	76
214	Changes in global trends in food waste composting: Research challenges and opportunities. <i>Bioresource Technology</i> , 2020 , 299, 122555	11	70
213	Comparison of biochar, zeolite and their mixture amendment for aiding organic matter transformation and nitrogen conservation during pig manure composting. <i>Bioresource Technology</i> , 2017 , 245, 300-308	11	68
212	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110033	16.2	67
211	Positive impact of biochar alone and combined with bacterial consortium amendment on improvement of bacterial community during cow manure composting. <i>Bioresource Technology</i> , 2019 , 280, 79-87	11	66
210	Potential use of lime combined with additives on (im)mobilization and phytoavailability of heavy metals from Pb/Zn smelter contaminated soils. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 145, 313-323	7	66

209	Influence of medical stone amendment on gaseous emissions, microbial biomass and abundance of ammonia oxidizing bacteria genes during biosolids composting. <i>Bioresource Technology</i> , 2018 , 247, 970-979	11	65
208	Metagenomics for taxonomy profiling: tools and approaches. <i>Bioengineered</i> , 2020 , 11, 356-374	5.7	62
207	Microbial dynamics for lignocellulosic waste bioconversion and its importance with modern circular economy, challenges and future perspectives. <i>Bioresource Technology</i> , 2019 , 291, 121905	11	62
206	Heterogeneity of zeolite combined with biochar properties as a function of sewage sludge composting and production of nutrient-rich compost. <i>Waste Management</i> , 2017 , 68, 760-773	8.6	60
205	Facilitative capture of As(V), Pb(II) and methylene blue from aqueous solutions with MgO hybrid sponge-like carbonaceous composite derived from sugarcane leafy trash. <i>Journal of Environmental Management</i> , 2018 , 212, 77-87	7.9	58
204	Biodegradation of food waste using microbial cultures producing thermostable α -amylase and cellulase under different pH and temperature. <i>Bioresource Technology</i> , 2018 , 248, 160-170	11	58
203	Comparative evaluation of the use of acidic additives on sewage sludge composting quality improvement, nitrogen conservation, and greenhouse gas reduction. <i>Bioresource Technology</i> , 2018 , 270, 467-475	11	57
202	Current research trends on micro- and nano-plastics as an emerging threat to global environment: A review. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124967	12.8	56
201	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. <i>Fuel</i> , 2021 , 285, 119117	7.1	56
200	Succession of bacteria diversity in the poultry manure composted mixed with clay: Studies upon its dynamics and associations with physicochemical and gaseous parameters. <i>Bioresource Technology</i> , 2018 , 267, 618-625	11	55
199	Impact of CaO, fly ash, sulfur and NaS on the (im)mobilization and phytoavailability of Cd, Cu and Pb in contaminated soil. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 134P1, 116-123	7	54
198	Effects of biochar amendment on bacterial and fungal diversity for co-composting of gelatin industry sludge mixed with organic fraction of municipal solid waste. <i>Bioresource Technology</i> , 2017 , 246, 214-223	11	53
197	Comparison of additives amendment for mitigation of greenhouse gases and ammonia emission during sewage sludge co-composting based on correlation analysis. <i>Bioresource Technology</i> , 2017 , 243, 520-527	11	51
196	Organic solid waste biorefinery: Sustainable strategy for emerging circular bioeconomy in China. <i>Industrial Crops and Products</i> , 2020 , 153, 112568	5.9	51
195	Anaerobic digestion of food waste to volatile fatty acids and hydrogen at high organic loading rates in immersed membrane bioreactors. <i>Renewable Energy</i> , 2020 , 152, 1140-1148	8.1	49
194	Relevance of biochar to influence the bacterial succession during pig manure composting. <i>Bioresource Technology</i> , 2020 , 304, 122962	11	49
193	The behavior of antibiotic resistance genes and their associations with bacterial community during poultry manure composting. <i>Bioresource Technology</i> , 2019 , 280, 70-78	11	48
192	Emerging applications of biochar: Improving pig manure composting and attenuation of heavy metal mobility in mature compost. <i>Journal of Hazardous Materials</i> , 2020 , 389, 122116	12.8	48

191	Influence of biochar on volatile fatty acids accumulation and microbial community succession during biosolids composting. <i>Bioresource Technology</i> , 2018 , 251, 158-164	11	48
190	Heterogeneous base catalysts: Synthesis and application for biodiesel production - A review. <i>Bioresource Technology</i> , 2021 , 331, 125054	11	48
189	Influence of bamboo biochar on mitigating greenhouse gas emissions and nitrogen loss during poultry manure composting. <i>Bioresource Technology</i> , 2020 , 303, 122952	11	47
188	Dynamics of soil microbial biomass and enzyme activities along a chronosequence of desertified land revegetation. <i>Ecological Engineering</i> , 2018 , 111, 22-30	3.9	47
187	Improvement of cleaner composting production by adding Diatomite: From the nitrogen conservation and greenhouse gas emission. <i>Bioresource Technology</i> , 2019 , 286, 121377	11	46
186	Beneficial effects of tobacco biochar combined with mineral additives on (im)mobilization and (bio)availability of Pb, Cd, Cu and Zn from Pb/Zn smelter contaminated soils. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 145, 528-538	7	41
185	Removal of Cd(II) and Cr(VI) ions by highly cross-linked Thiocarbonylhydrazide-chitosan gel. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1072-1081	7.9	41
184	Response of bamboo biochar amendment on volatile fatty acids accumulation reduction and humification during chicken manure composting. <i>Bioresource Technology</i> , 2019 , 291, 121845	11	40
183	Resource recovery and biorefinery potential of apple orchard waste in the circular bioeconomy. <i>Bioresource Technology</i> , 2021 , 321, 124496	11	39
182	Nitrate removal by combined heterotrophic and autotrophic denitrification processes: Impact of coexistent ions. <i>Bioresource Technology</i> , 2018 , 250, 838-845	11	39
181	Techno-economics and life-cycle assessment of biological and thermochemical treatment of bio-waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 144, 110837	16.2	39
180	Effect of composting on the thermal decomposition behavior and kinetic parameters of pig manure-derived solid waste. <i>Bioresource Technology</i> , 2018 , 252, 59-65	11	38
179	Two-dimensional time fractional-order biological population model and its analytical solutionPeer review under responsibility of Mansoura UniversityView all notes. <i>Egyptian Journal of Basic and Applied Sciences</i> , 2014 , 1, 71-76	1.3	38
178	Assessing the impact of industrial waste on environment and mitigation strategies: A comprehensive review. <i>Journal of Hazardous Materials</i> , 2020 , 398, 123019	12.8	38
177	Evaluating the impact of bamboo biochar on the fungal community succession during chicken manure composting. <i>Bioresource Technology</i> , 2019 , 272, 308-314	11	38
176	Effect of biochar and bacterial inoculum additions on cow dung composting. <i>Bioresource Technology</i> , 2020 , 297, 122407	11	37
175	An assessment of the persistence of pathogenic bacteria removal in chicken manure compost employing clay as additive via meta-genomic analysis. <i>Journal of Hazardous Materials</i> , 2019 , 366, 184-191	12.8	37
174	Performance of black soldier fly larvae (Diptera: Stratiomyidae) for manure composting and production of cleaner compost. <i>Journal of Environmental Management</i> , 2019 , 251, 109593	7.9	35

173	Effect of bean dregs on nitrogen transformation and bacterial dynamics during pig manure composting. <i>Bioresource Technology</i> , 2019 , 288, 121430	11	35
172	Performance evaluation of gaseous emissions and Zn speciation during Zn-rich antibiotic manufacturing wastes and pig manure composting. <i>Bioresource Technology</i> , 2018 , 267, 688-695	11	35
171	Exploring the microbial mechanisms of organic matter transformation during pig manure composting amended with bean dregs and biochar. <i>Bioresource Technology</i> , 2020 , 313, 123647	11	34
170	New insight of tertiary-amine modified bentonite amendment on the nitrogen transformation and volatile fatty acids during the chicken manure composting. <i>Bioresource Technology</i> , 2018 , 266, 524-531	11	34
169	Analytical approximations of two and three dimensional time-fractional telegraphic equation by reduced differential transform methodPeer review under responsibility of Mansoura University.View all notes. <i>Egyptian Journal of Basic and Applied Sciences</i> , 2014 , 1, 60-66	1.3	34
168	RDTM solution of Caputo time fractional-order hyperbolic telegraph equation. <i>AIP Advances</i> , 2013 , 3, 032142	1.5	34
167	Cleaner production of agriculturally valuable benignant materials from industry generated bio-wastes: A review. <i>Bioresource Technology</i> , 2021 , 320, 124281	11	34
166	Utilization of medical stone to improve the composition and quality of dissolved organic matter in composted pig manure. <i>Journal of Cleaner Production</i> , 2018 , 197, 472-478	10.3	33
165	Decontamination of Hg(II) from aqueous solution using polyamine-co-thiourea inarched chitosan gel derivatives. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 106-115	7.9	32
164	Bio-degradation of oily food waste employing thermophilic bacterial strains. <i>Bioresource Technology</i> , 2018 , 248, 141-147	11	31
163	Evaluation of integrated biochar with bacterial consortium on gaseous emissions mitigation and nutrients sequestration during pig manure composting. <i>Bioresource Technology</i> , 2019 , 291, 121880	11	31
162	Numerical approximation for HIV infection of CD4+ T cells mathematical model. <i>Ain Shams Engineering Journal</i> , 2014 , 5, 625-629	4.4	31
161	A critical review on the development stage of biorefinery systems towards the management of apple processing-derived waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 143, 110972	16.2	31
160	The diversity of microbial community and function varied in response to different agricultural residues composting. <i>Science of the Total Environment</i> , 2020 , 715, 136983	10.2	30
159	Compost supplementation with nitrogen loss and greenhouse gas emissions during pig manure composting. <i>Bioresource Technology</i> , 2020 , 297, 122435	11	30
158	Improving methane yield and quality via co-digestion of cow dung mixed with food waste. <i>Bioresource Technology</i> , 2018 , 251, 259-263	11	29
157	Critical evaluation of post-consumption food waste composting employing thermophilic bacterial consortium. <i>Bioresource Technology</i> , 2017 , 245, 665-672	11	29
156	Nonlinear analysis of capillary instability with heat and mass transfer. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 2463-2475	3.7	28

155	Dynamics of fungal diversity and interactions with environmental elements in response to wheat straw biochar amended poultry manure composting. <i>Bioresource Technology</i> , 2019 , 274, 410-417	11	28
154	Aerobic denitrification performance and nitrate removal pathway analysis of a novel fungus <i>Fusarium solani</i> RADF-77. <i>Bioresource Technology</i> , 2020 , 295, 122250	11	28
153	Beneficial effect of mixture of additives amendment on enzymatic activities, organic matter degradation and humification during biosolids co-composting. <i>Bioresource Technology</i> , 2018 , 247, 138-146	11	27
152	Chemico-nanotreatment methods for the removal of persistent organic pollutants and xenobiotics in water - A review. <i>Bioresource Technology</i> , 2021 , 324, 124678	11	27
151	The dynamic of cellulase activity of fungi inhabiting organic municipal solid waste. <i>Bioresource Technology</i> , 2018 , 251, 411-415	11	27
150	Apple orchard waste recycling and valorization of valuable product-A review. <i>Bioengineered</i> , 2021 , 12, 476-495	5.7	27
149	Manure pretreatments with black soldier fly <i>Hermetia illucens</i> L. (Diptera: Stratiomyidae): A study to reduce pathogen content. <i>Science of the Total Environment</i> , 2020 , 737, 139842	10.2	26
148	Improvement of humification and mechanism of nitrogen transformation during pig manure composting with Black Tourmaline. <i>Bioresource Technology</i> , 2020 , 307, 123236	11	26
147	One-dimensional coupled Burgers' equation and its numerical solution by an implicit logarithmic finite-difference method. <i>AIP Advances</i> , 2014 , 4, 037119	1.5	26
146	Measurement of cow manure compost toxicity and maturity based on weed seed germination. <i>Journal of Cleaner Production</i> , 2020 , 245, 118894	10.3	26
145	Biofuel Production From Biomass: Toward Sustainable Development 2019 , 79-92		25
144	Microbial driving mechanism of biochar and bean dregs on NH and NO emissions during composting. <i>Bioresource Technology</i> , 2020 , 315, 123829	11	25
143	Application of metagenomic analysis for detection of the reduction in the antibiotic resistance genes (ARGs) by the addition of clay during poultry manure composting. <i>Chemosphere</i> , 2019 , 220, 137-145	8.4	25
142	Can biochar regulate the fate of heavy metals (Cu and Zn) resistant bacteria community during the poultry manure composting?. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124593	12.8	25
141	Electron transfer and mechanism of energy production among syntrophic bacteria during acidogenic fermentation: A review. <i>Bioresource Technology</i> , 2021 , 323, 124637	11	24
140	Respond of clay amendment in chicken manure composts to understand the antibiotic resistant bacterial diversity and its correlation with physicochemical parameters. <i>Journal of Cleaner Production</i> , 2019 , 236, 117715	10.3	23
139	In-vessel co-composting of biosolid: Focusing on mitigation of greenhouse gases emissions and nutrients conservation. <i>Renewable Energy</i> , 2018 , 129, 814-823	8.1	23
138	Effects of black soldier fly larvae (Diptera: Stratiomyidae) on food waste and sewage sludge composting. <i>Journal of Environmental Management</i> , 2020 , 256, 109967	7.9	23

137	Evaluation of microbial dynamics during post-consumption food waste composting. <i>Bioresource Technology</i> , 2018 , 251, 181-188	11	23
136	Earthworms and vermicompost: an eco-friendly approach for repaying nature's debt. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 1617-1642	4.7	22
135	Role of Ca-bentonite to improve the humification, enzymatic activities, nutrient transformation and end product quality during sewage sludge composting. <i>Bioresource Technology</i> , 2018 , 262, 80-89	11	21
134	Feasibility of medical stone amendment for sewage sludge co-composting and production of nutrient-rich compost. <i>Journal of Environmental Management</i> , 2018 , 216, 49-61	7.9	21
133	An implicit logarithmic finite-difference technique for two dimensional coupled viscous Burgers' equation. <i>AIP Advances</i> , 2013 , 3, 122105	1.5	21
132	Sustainable blueberry waste recycling towards biorefinery strategy and circular bioeconomy: A review. <i>Bioresource Technology</i> , 2021 , 332, 125181	11	21
131	Application of electrochemical treatment for the removal of triazine dye using aluminium electrodes 2020 , 69, 345-354		20
130	Influence of fine coal gasification slag on greenhouse gases emission and volatile fatty acids during pig manure composting. <i>Bioresource Technology</i> , 2020 , 316, 123915	11	20
129	Mulching practices alter the bacterial-fungal community and network in favor of soil quality in a semiarid orchard system. <i>Science of the Total Environment</i> , 2020 , 725, 138527	10.2	20
128	Emerging nano-structured innovative materials as adsorbents in wastewater treatment. <i>Bioresource Technology</i> , 2021 , 320, 124394	11	20
127	Effects of clay on nitrogen cycle related functional genes abundance during chicken manure composting. <i>Bioresource Technology</i> , 2019 , 291, 121886	11	19
126	Numerical solutions of coupled Burgers' equations by an implicit finite-difference scheme. <i>AIP Advances</i> , 2013 , 3, 082131	1.5	19
125	Succession of keratin-degrading bacteria and associated health risks during pig manure composting. <i>Journal of Cleaner Production</i> , 2020 , 258, 120624	10.3	18
124	Effect of biochar on emission, maturity and bacterial dynamics during sheep manure composting. <i>Renewable Energy</i> , 2020 , 152, 421-429	8.1	18
123	Viscous correction for the viscous potential flow analysis of Kelvin-Helmholtz instability of cylindrical flow with heat and mass transfer. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 251-259	4.9	18
122	Pressure corrections for the potential flow analysis of Kelvin-Helmholtz instability with heat and mass transfer. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2345-2352	4.9	18
121	Comparative analysis of prediction models for methane potential based on spent edible fungus substrate. <i>Bioresource Technology</i> , 2020 , 317, 124052	11	17
120	Interrelationships between tetracyclines and nitrogen cycling processes mediated by microorganisms: A review. <i>Bioresource Technology</i> , 2021 , 319, 124036	11	17

119	Converting spent battery anode waste into a porous biocomposite with high Pb(II) ion capture capacity from solution. <i>Journal of Cleaner Production</i> , 2018 , 184, 622-631	10.3	16
118	(1+n)-Dimensional Burgers Equation and its analytical solution: A comparative study of HPM, ADM and DTM. <i>Ain Shams Engineering Journal</i> , 2014 , 5, 533-541	4.4	16
117	Reduced differential transform method for solving (1+n) Dimensional Burgers' equationPeer review under responsibility of Mansoura UniversityView all notes. <i>Egyptian Journal of Basic and Applied Sciences</i> , 2014 , 1, 115-119	1.3	16
116	Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. <i>Energy and Environment</i> , 2020 , 0958305X1989678	2.4	16
115	Design of novel enzyme biocatalysts for industrial bioprocess: Harnessing the power of protein engineering, high throughput screening and synthetic biology. <i>Bioresource Technology</i> , 2021 , 325, 124617	11	16
114	Atmospheric Deposition-Carried Zn and Cd from a Zinc Smelter and Their Effects on Soil Microflora as Revealed by 16S rDNA. <i>Scientific Reports</i> , 2016 , 6, 39148	4.9	16
113	Effect of different aerobic hydrolysis time on the anaerobic digestion characteristics and energy consumption analysis. <i>Bioresource Technology</i> , 2021 , 320, 124332	11	16
112	Reduced differential transform method to solve two and three dimensional second order hyperbolic telegraph equations. <i>Journal of King Saud University, Engineering Sciences</i> , 2017 , 29, 166-171	2.2	15
111	Viscous potential flow analysis of capillary instability with heat and mass transfer through porous media. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 40, 7-11	5.8	15
110	The Telegraph Equation and Its Solution by Reduced Differential Transform Method. <i>Modelling and Simulation in Engineering</i> , 2013 , 2013, 1-6	1.3	15
109	Studies on the degradation of corn straw by combined bacterial cultures. <i>Bioresource Technology</i> , 2021 , 320, 124174	11	15
108	Biosurfactants: Potential and Eco-Friendly Material for Sustainable Agriculture and Environmental SafetyA Review. <i>Agronomy</i> , 2022 , 12, 662	3.6	15
107	Role of compost biochar amendment on the (im)mobilization of cadmium and zinc for Chinese cabbage (<i>Brassica rapa</i> L.) from contaminated soil. <i>Journal of Soils and Sediments</i> , 2019 , 19, 3883-3897	3.4	14
106	Effect of fine coal gasification slag on improvement of bacterial diversity community during the pig manure composting. <i>Bioresource Technology</i> , 2020 , 304, 123024	11	14
105	Activation of biochar through exoenzymes prompted by earthworms for vermibiochar production: A viable resource recovery option for heavy metal contaminated soils and water. <i>Chemosphere</i> , 2021 , 278, 130458	8.4	14
104	Simultaneous aerobic denitrification and antibiotics degradation by strain <i>Marinobacter hydrocarbonoclasticus</i> RAD-2. <i>Bioresource Technology</i> , 2020 , 313, 123609	11	13
103	Implications of endophytic microbiota in : a review on current understanding and future insights. <i>Bioengineered</i> , 2020 , 11, 1001-1015	5.7	13
102	Sequential presence of heavy metal resistant fungal communities influenced by biochar amendment in the poultry manure composting process. <i>Journal of Cleaner Production</i> , 2021 , 291, 125947	10.3	13

101	Improvement of the composition and humification of different animal manures by black soldier fly bioconversion. <i>Journal of Cleaner Production</i> , 2021 , 278, 123397	10.3	13
100	Effect of calcium bentonite on Zn and Cu mobility and their accumulation in vegetable growth in soil amended with compost during consecutive planting. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 15645-15654	5.1	12
99	Effect of tertiary-amine bentonite on carbon transformation and global warming potential during chicken manure composting. <i>Journal of Cleaner Production</i> , 2019 , 237, 117818	10.3	12
98	Impact of the addition of black soldier fly larvae on humification and speciation of trace elements during manure composting. <i>Industrial Crops and Products</i> , 2020 , 154, 112657	5.9	12
97	Connecting soil dissolved organic matter to soil bacterial community structure in a long-term grass-mulching apple orchard. <i>Industrial Crops and Products</i> , 2020 , 149, 112344	5.9	12
96	Recycling of leather industrial sludge through vermitechnology for a cleaner environment: A review. <i>Industrial Crops and Products</i> , 2020 , 155, 112791	5.9	12
95	Conversion food waste and sawdust into compost employing black soldier fly larvae (diptera: Stratiomyidae) under the optimized condition. <i>Chemosphere</i> , 2021 , 272, 129931	8.4	12
94	Viscous corrections for the viscous potential flow analysis of magnetohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer. <i>European Physical Journal A</i> , 2012 , 48, 1	2.5	11
93	Changes of fungal diversity in fine coal gasification slag amendment pig manure composting. <i>Bioresource Technology</i> , 2021 , 325, 124703	11	11
92	Compost biochar application to contaminated soil reduces the (im)mobilization and phytoavailability of lead and copper. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 408-417	3.5	11
91	Advanced biomaterials for sustainable applications in the food industry: Updates and challenges. <i>Environmental Pollution</i> , 2021 , 283, 117071	9.3	11
90	Mulching practices alter soil microbial functional diversity and benefit to soil quality in orchards on the Loess Plateau. <i>Journal of Environmental Management</i> , 2020 , 271, 110985	7.9	10
89	Viscous Potential Flow Analysis of Nonlinear Rayleigh-Taylor Instability with Heat and Mass Transfer. <i>Microgravity Science and Technology</i> , 2012 , 24, 351-363	1.6	10
88	AN IMPLICIT FINITE-DIFFERENCE SOLUTION TO ONE-DIMENSIONAL COUPLED BURGERS' EQUATIONS. <i>Asian-European Journal of Mathematics</i> , 2013 , 06, 1350058	0.4	10
87	Bioengineered Biochar As Smart Candidate For Resource Recovery Toward Circular Bio-Economy: A Review. <i>Bioengineered</i> , 2021 ,	5.7	10
86	Temporal and spatial variation of soil microorganisms and nutrient under white clover cover. <i>Soil and Tillage Research</i> , 2020 , 202, 104666	6.5	9
85	Sustainable Composting and Its Environmental Implications 2019 , 115-132		9
84	Sustainable Management of Solid Waste 2019 , 79-99		9

83	Viscous Corrections for the Viscous Potential Flow Analysis of Rayleigh–Taylor Instability With Heat and Mass Transfer. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	9
82	Nonlinear Analysis of Rayleigh–Taylor Instability of Cylindrical Flow With Heat and Mass Transfer. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013 , 135,	2.1	9
81	VISCOUS CONTRIBUTIONS TO THE PRESSURE FOR THE POTENTIAL FLOW ANALYSIS OF MAGNETOHYDRODYNAMIC KELVIN–HELMHOLTZ INSTABILITY. <i>International Journal of Applied Mechanics</i> , 2012 , 04, 1250001	2.4	9
80	Effect of red kaolin on the diversity of functional genes based on Kyoto Encyclopedia of Genes and Genomes pathways during chicken manure composting. <i>Bioresource Technology</i> , 2020 , 311, 123584	11	8
79	Evaluation of biochar amendment on heavy metal resistant bacteria abundance in biosolids compost. <i>Bioresource Technology</i> , 2020 , 306, 123114	11	8
78	Arbuscular mycorrhizal fungi increase the bioavailability and wheat (<i>Triticum aestivum</i> L.) uptake of selenium in soil. <i>Industrial Crops and Products</i> , 2020 , 150, 112383	5.9	8
77	Onset of triply diffusive convection in a Maxwell fluid saturated porous layer with internal heat source. <i>Ain Shams Engineering Journal</i> , 2018 , 9, 1591-1600	4.4	8
76	Viscous Potential Flow Analysis of Kelvin–Helmholtz Instability of a Cylindrical Flow with Heat and Mass Transfer. <i>Heat Transfer - Asian Research</i> , 2014 , 43, 489-503	2.8	8
75	In-Vessel Co-Composting of Food Waste Employing Enriched Bacterial Consortium. <i>Food Technology and Biotechnology</i> , 2018 , 56, 83-89	2.1	8
74	An assessment of the functional enzymes and corresponding genes in chicken manure and wheat straw composted with addition of clay via meta-genomic analysis. <i>Industrial Crops and Products</i> , 2020 , 153, 112573	5.9	7
73	Behaviors and related mechanisms of Zn resistance and antibiotic resistance genes during co-composting of erythromycin manufacturing wastes and pig manure. <i>Bioresource Technology</i> , 2020 , 318, 124048	11	7
72	Clean technology for biochar and organic waste recycling, and utilization in apple orchard. <i>Chemosphere</i> , 2021 , 274, 129914	8.4	7
71	Rayleigh–Taylor Instability of Swirling Annular Layer With Mass Transfer. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019 , 141,	2.1	7
70	Long-term cover crops improved soil phosphorus availability in a rain-fed apple orchard. <i>Chemosphere</i> , 2021 , 275, 130093	8.4	7
69	Characterization of pyridine biodegradation by two <i>Enterobacter</i> sp. strains immobilized on <i>Solidago canadensis</i> L. stem derived biochar. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125577	12.8	7
68	Global Status of Waste-to-Energy Technology 2019 , 31-52		6
67	Time-course transcriptome analysis reveals the mechanisms of <i>Burkholderia</i> sp. adaptation to high phenol concentrations. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 5873-5887	5.7	6
66	Seasonal variation of net ecosystem CO exchange and its influencing factors in an apple orchard in the Loess Plateau. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 43452-43465	5.1	6

65	Steady MHD Flow of Nano-Fluids over a Rotating Porous Disk in the Presence of Heat Generation/Absorption: a Numerical Study using PSO. <i>Journal of Applied Fluid Mechanics</i> , 2017 , 10, 871-879	1.5	6
64	Thermal convection in a layer of micropolar nanofluid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021 , 16, e2681	1.3	6
63	Viscous potential flow analysis of magnetohydrodynamic Rayleigh-Taylor instability with heat and mass transfer. <i>International Journal of Dynamics and Control</i> , 2014 , 2, 254-261	1.7	5
62	Viscous correction for the viscous potential flow analysis of capillary instability with heat and mass transfer. <i>Journal of Engineering Mathematics</i> , 2013 , 80, 75-89	1.2	5
61	STUDY ON ELECTROHYDRODYNAMIC CAPILLARY INSTABILITY OF VISCOELASTIC FLUIDS IN PRESENCE OF AXIAL ELECTRIC FIELD. <i>International Journal of Applied Mechanics</i> , 2012 , 04, 1250027	2.4	5
60	Metabolic circuits and gene regulators in polyhydroxyalkanoate producing organisms: Intervention strategies for enhanced production. <i>Bioresource Technology</i> , 2021 , 327, 124791	11	5
59	Nonlinear Study of Kelvin-Helmholtz instability of cylindrical flow with mass and heat transfer. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 71, 216-224	5.8	5
58	Thermal instability in a horizontal composite nano-liquid layer. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	4
57	Composting for Organic Waste Management 2016 , 233-272		4
56	Nonlinear Rayleigh-Taylor instability of cylindrical flow with mass transfer through porous media. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 56, 79-85	5.8	4
55	Electrohydrodynamic capillary instability with heat and mass transfer. <i>Ain Shams Engineering Journal</i> , 2014 , 5, 263-270	4.4	4
54	Study on Kelvin-Helmholtz Instability With Heat and Mass Transfer. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014 , 136,	2.1	4
53	Three-dimensional magnetohydrodynamic Kelvin-Helmholtz instability of cylindrical flow with permeable boundaries. <i>Physics of Plasmas</i> , 2014 , 21, 032124	2.1	4
52	Pressure Corrections for the Potential Flow Analysis of Kelvin-Helmholtz Instability. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 4628-4635	0.3	4
51	Capillary Instability of Viscoelastic Liquid Film With Heat and Mass Transfer. <i>Journal of Heat Transfer</i> , 2020 , 142,	1.8	4
50	Onset of Triple-Diffusive Convection in a Nanofluid Layer. <i>Journal of Nanofluids</i> , 2016 , 5, 284-291	2.2	4
49	Modeling CO exchange and meteorological factors of an apple orchard using partial least square regression. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 43439-43451	5.1	4
48	The Horton-Rogers-Lapwood problem in a Jeffrey fluid influenced by a vertical magnetic field. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892110311	1.5	4

47	Kelvin-Helmholtz instability of viscoelastic liquid-viscous gas interface with heat and mass transfer. <i>International Journal of Thermal Sciences</i> , 2021 , 161, 106710	4.1	4
46	Processing of municipal solid waste resources for a circular economy in China: An overview. <i>Fuel</i> , 2022 , 317, 123478	7.1	4
45	Compressibility effects on the Kelvin-Helmholtz and Rayleigh-Taylor instabilities between two immiscible fluids flowing through a porous medium. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	3
44	HYDRODYNAMIC AND HYDROMAGNETIC TRIPLY DIFFUSIVE CONVECTION IN A VISCOELASTIC FLUID THROUGH POROUS MEDIUM. <i>Special Topics and Reviews in Porous Media</i> , 2015 , 6, 297-311	2.5	3
43	Rayleigh instability of power-law viscoelastic liquid with heat and mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 129, 105657	5.8	3
42	Stability analysis between two concentric rotating cylinders with heat and mass transfer. <i>Heat Transfer</i> , 2020 , 49, 971-983	3.1	3
41	A metaheuristic approach for the comparative study of MHD flow of nano liquids in a semi-porous channel. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2021 , 22, 244-251	0.7	3
40	To Beacon or Not?: Speed Based Probabilistic Adaptive Beaconing Approach for Vehicular Ad-Hoc Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2021 , 156-170	0.2	3
39	Evaporative capillary instability for flow in porous media under the influence of axial electric field. <i>Physics of Plasmas</i> , 2014 , 21, 042105	2.1	2
38	Nonlinear analysis of capillary instability with mass transfer through porous media. <i>European Physical Journal Plus</i> , 2014 , 129, 1	3.1	2
37	Electrohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer: Effect of perpendicular electric field. <i>Ain Shams Engineering Journal</i> , 2014 , 5, 605-612	4.4	2
36	Study on hydro-magnetic capillary instability with mass transfer through porous media. <i>International Journal of Dynamics and Control</i> , 2013 , 1, 164-171	1.7	2
35	Study on magnetohydrodynamic Kelvin-Helmholtz instability with mass transfer through porous media. <i>European Physical Journal Plus</i> , 2013 , 128, 1	3.1	2
34	Study on Capillary Instability With Heat and Mass Transfer Through Porous Media: Effect of Irrotational Viscous Pressure. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014 , 136,	2.1	2
33	Viscous Potential Flow Analysis of Rayleigh-Taylor Instability of Cylindrical Interface. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 769-775	0.3	2
32	PRESSURE CORRECTIONS FOR THE VISCOELASTIC POTENTIAL FLOW ANALYSIS OF ELECTROHYDRODYNAMIC CAPILLARY INSTABILITY. <i>International Journal of Applied Mechanics</i> , 2012 , 04, 1250047	2.4	2
31	Instability of a Radially Moving Cylindrical Surface: A Viscous Potential Flow Approach. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020 , 142,	2.1	2
30	Sustainability analysis of large-scale food waste composting 2020 , 301-322		2

29	Temporal instability of a power-law viscoelastic nanofluid layer. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1427	2.3	2
28	Greenhouse Gases Emission Mitigation and Utilization in Composting and Waste Management Industry: Potentials and Challenges. <i>Energy, Environment, and Sustainability</i> , 2019 , 19-37	0.8	2
27	Recent Advances in Composting of Organic and Hazardous Waste: A Road Map to Safer Environment. <i>Energy, Environment, and Sustainability</i> , 2018 , 307-329	0.8	2
26	Current status of global warming potential reduction by cleaner composting. <i>Energy and Environment</i> , 2019 , 0958305X1988241	2.4	1
25	Viscous potential flow analysis of magnetohydrodynamic capillary instability with heat and mass transfer. <i>Ain Shams Engineering Journal</i> , 2015 , 6, 1113-1120	4.4	1
24	Study on electrohydrodynamic Rayleigh-Taylor instability with heat and mass transfer. <i>Scientific World Journal, The</i> , 2014 , 2014, 485807	2.2	1
23	STUDY ON ELECTROHYDRODYNAMIC CAPILLARY INSTABILITY OF VISCOELASTIC FLUIDS WITH RADIAL ELECTRIC FIELD. <i>International Journal of Applied Mechanics</i> , 2014 , 06, 1450037	2.4	1
22	Magnetoviscous potential flow analysis of Kelvin-Helmholtz instability with heat and mass transfer. <i>Applied Mathematical Modelling</i> , 2014 , 38, 5490-5501	4.5	1
21	Pressure corrections for viscous potential flow analysis of radial fingering in Hele-Shaw cell. <i>Journal of Engineering Mathematics</i> , 2013 , 83, 131-142	1.2	1
20	Viscous corrections for the viscous potential flow analysis of electrohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2013 , 42, 283-301	0.4	1
19	Double diffusive convective motion in a reactive porous medium layer saturated by a non-Newtonian Kuvshinski fluid. <i>Physics of Fluids</i> , 2022 , 34, 024104	4.4	1
18	Nonlinear Kelvin-Helmholtz Instability of Viscous Fluids with Heat and Mass Transfer. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 205-217	0.4	1
17	Pressure corrections for viscous potential flow analysis of Rayleigh-Taylor instability of swirling annular layer 2020 ,		1
16	Rayleigh-Taylor instability in a spherical configuration: A viscous potential flow approach. <i>Chinese Journal of Physics</i> , 2020 , 68, 866-873	3.5	1
15	Magneto-hydrodynamic evaporative capillary instability with swirling 2021 ,		1
14	Temporal instability of Walter's B viscoelastic fluid film. <i>Journal of Physics: Conference Series</i> , 2021 , 1849, 012012	0.3	1
13	Mitigation of Global Warming Potential for Cleaner Composting. <i>Energy, Environment, and Sustainability</i> , 2018 , 271-305	0.8	1
12	Double-Diffusive Convection in a Hybrid Nanofluid Layer. <i>Journal of Nanofluids</i> , 2022 , 11, 296-304	2.2	1

11	Instability of Rivlin-Ericksen fluid film with heat and mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 135, 106085	5.8	1
10	Stability characteristics of Walter-B viscoelastic fluid in a cylindrical configuration with heat transfer. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622211018	1.3	1
9	Viscous potential flow analysis of electrohydrodynamic capillary instability with heat and mass transfer: Effect of free surface charge. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2015 , 47, 453-465	0.4	0
8	Soil Amendments for Heavy Metal Immobilization Using Different Crops 2016 , 371-399		0
7	Kelvin-Helmholtz instability with mass transfer through porous media: Effect of irrotational viscous pressure. <i>Journal of Hydrodynamics</i> , 2014 , 26, 624-636	3.3	0
6	Study of heat and mass transport on the instability of a swirling viscoelastic liquid film. <i>European Physical Journal E</i> , 2021 , 44, 36	1.5	0
5	Rayleigh-Taylor instability at viscous gas-viscoelastic fluid interface with heat and mass transfer. <i>Materials Today: Proceedings</i> , 2021 , 46, 10217-10220	1.4	0
4	Experimental Analysis of 3D Printed Microfluidic Device for Detection of Adulteration in Fluids. <i>Springer Proceedings in Energy</i> , 2018 , 39-46	0.2	
3	Viscous Potential Flow Analysis of Electroaerodynamic Instability of a Liquid Sheet Sprayed with an Air Stream. <i>Modelling and Simulation in Engineering</i> , 2013 , 2013, 1-6	1.3	
2	Viscous potential flow analysis of electrohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer: Effect of free surface charge. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2013 , 41, 407-418	0.4	
1	Study of rotating liquid-vapor interface with mass transfer through porous media. <i>Materials Today: Proceedings</i> , 2021 , 46, 10268-10274	1.4	