Mukesh Kumar Awasthi

List of Publications by Year in Descending Order

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	Double diffusive convective motion in a reactive porous medium layer saturated by a non-Newtonian Kuvshiniski fluid. *Physics of Fluids*, **2022**, 34, 024104	4.4	1
243	Biosurfactants: Potential and Eco-Friendly Material for Sustainable Agriculture and Environmental Safety□A Review. *Agronomy*, **2022**, 12, 662	3.6	15
242	Double-Diffusive Convection in a Hybrid Nanofluid Layer. *Journal of Nanofluids*, **2022**, 11, 296-304	2.2	1
241	Processing of municipal solid waste resources for a circular economy in China: An overview. *Fuel*, **2022**, 317, 123478	7.1	4
240	Instability of Rivlin-Ericksen fluid film with heat and mass transfer. *International Communications in Heat and Mass Transfer*, **2022**, 135, 106085	5.8	1
239	Rayleigh instability of power-law viscoelastic liquid with heat and mass transfer. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105657	5.8	3
238	Nonlinear Kelvin□Helmholtz Instability of Viscous Fluids with Heat and Mass Transfer. *Lecture Notes in Mechanical Engineering*, **2021**, 205-217	0.4	1
237	Bioengineered Biochar As Smart Candidate For Resource Recovery Toward Circular Bio-Economy: A Review. *Bioengineered*, **2021**,	5.7	10
236	Chemico-nanotreatment methods for the removal of persistent organic pollutants and xenobiotics in water - A review. *Bioresource Technology*, **2021**, 324, 124678	11	27
235	Study of heat and mass transport on the instability of a swirling viscoelastic liquid film. *European Physical Journal E*, **2021**, 44, 36	1.5	0
234	Electron transfer and mechanism of energy production among syntrophic bacteria during acidogenic fermentation: A review. *Bioresource Technology*, **2021**, 323, 124637	11	24
233	Changes of fungal diversity in fine coal gasification slag amendment pig manure composting. *Bioresource Technology*, **2021**, 325, 124703	11	11
232	Sequential presence of heavy metal resistant fungal communities influenced by biochar amendment in the poultry manure composting process. *Journal of Cleaner Production*, **2021**, 291, 125947	10.3	13
231	Temporal instability of a power-law viscoelastic nanofluid layer. *European Physical Journal: Special Topics*, **2021**, 230, 1427	2.3	2
230	Design of novel enzyme biocatalysts for industrial bioprocess: Harnessing the power of protein engineering, high throughput screening and synthetic biology. *Bioresource Technology*, **2021**, 325, 124617	11	16
229	A metaheuristic approach for the comparative study of MHD flow of nano liquids in a semi-porous channel. *International Journal for Computational Methods in Engineering Science and Mechanics*, **2021**, 22, 244-251	0.7	3
228	Current research trends on micro- and nano-plastics as an emerging threat to global environment: A review. *Journal of Hazardous Materials*, **2021**, 409, 124967	12.8	56

227	Metabolic circuits and gene regulators in polyhydroxyalkanoate producing organisms: Intervention strategies for enhanced production. *Bioresource Technology*, **2021**, 327, 124791	11	5
226	Thermal convection in a layer of micropolar nanofluid. *Asia-Pacific Journal of Chemical Engineering*, **2021**, 16, e2681	1.3	6
225	Conversion food waste and sawdust into compost employing black soldier fly larvae (diptera: Stratiomyidae) under the optimized condition. *Chemosphere*, **2021**, 272, 129931	8.4	12
224	A critical review on the development stage of biorefinery systems towards the management of apple processing-derived waste. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110972	16.2	31
223	Clean technology for biochar and organic waste recycling, and utilization in apple orchard. *Chemosphere*, **2021**, 274, 129914	8.4	7
222	Effect of different aerobic hydrolysis time on the anaerobic digestion characteristics and energy consumption analysis. *Bioresource Technology*, **2021**, 320, 124332	11	16
221	Emerging nano-structured innovative materials as adsorbents in wastewater treatment. *Bioresource Technology*, **2021**, 320, 124394	11	20
220	Improvement of the composition and humification of different animal manures by black soldier fly bioconversion. *Journal of Cleaner Production*, **2021**, 278, 123397	10.3	13
219	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. *Science of the Total Environment*, **2021**, 751, 141599	10.2	93
218	Studies on the degradation of corn straw by combined bacterial cultures. *Bioresource Technology*, **2021**, 320, 124174	11	15
217	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. *Fuel*, **2021**, 285, 119117	7.1	56
216	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110033	16.2	67
215	Cleaner production of agriculturally valuable benignant materials from industry generated bio-wastes: A review. *Bioresource Technology*, **2021**, 320, 124281	11	34
214	Can biochar regulate the fate of heavy metals (Cu and Zn) resistant bacteria community during the poultry manure composting?. *Journal of Hazardous Materials*, **2021**, 406, 124593	12.8	25
213	Kelvin-Helmholtz instability of viscoelastic liquid-viscous gas interface with heat and mass transfer. *International Journal of Thermal Sciences*, **2021**, 161, 106710	4.1	4
212	Resource recovery and biorefinery potential of apple orchard waste in the circular bioeconomy. *Bioresource Technology*, **2021**, 321, 124496	11	39
211	Interrelationships between tetracyclines and nitrogen cycling processes mediated by microorganisms: A review. *Bioresource Technology*, **2021**, 319, 124036	11	17
210	To Beacon or Not?: Speed Based Probabilistic Adaptive Beaconing Approach for Vehicular Ad-Hoc Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2021**, 156-170	0.2	3

209	Rayleigh-Taylor instability at viscous gas-viscoelastic fluid interface with heat and mass transfer. *Materials Today: Proceedings*, **2021**, 46, 10217-10220	1.4	0
208	Magneto-hydrodynamic evaporative capillary instability with swirling **2021**,		1
207	Temporal instability of Walter's B viscoelastic fluid film. *Journal of Physics: Conference Series*, **2021**, 1849, 012012	0.3	1
206	Techno-economics and life-cycle assessment of biological and thermochemical treatment of bio-waste. *Renewable and Sustainable Energy Reviews*, **2021**, 144, 110837	16.2	39
205	Heterogeneous base catalysts: Synthesis and application for biodiesel production - A review. *Bioresource Technology*, **2021**, 331, 125054	11	48
204	Long-term cover crops improved soil phosphorus availability in a rain-fed apple orchard. *Chemosphere*, **2021**, 275, 130093	8.4	7
203	Sustainable blueberry waste recycling towards biorefinery strategy and circular bioeconomy: A review. *Bioresource Technology*, **2021**, 332, 125181	11	21
202	Characterization of pyridine biodegradation by two Enterobacter sp. strains immobilized on Solidago canadensis L. stem derived biochar. *Journal of Hazardous Materials*, **2021**, 414, 125577	12.8	7
201	Advanced biomaterials for sustainable applications in the food industry: Updates and challenges. *Environmental Pollution*, **2021**, 283, 117071	9.3	11
200	Activation of biochar through exoenzymes prompted by earthworms for vermibiochar production: A viable resource recovery option for heavy metal contaminated soils and water. *Chemosphere*, **2021**, 278, 130458	8.4	14
199	Apple orchard waste recycling and valorization of valuable product-A review. *Bioengineered*, **2021**, 12, 476-495	5.7	27
198	Study of rotating liquid□apor interface with mass transfer through porous media. *Materials Today: Proceedings*, **2021**, 46, 10268-10274	1.4	
197	Refining biomass residues for sustainable energy and bio-products: An assessment of technology, its importance, and strategic applications in circular bio-economy. *Renewable and Sustainable Energy Reviews*, **2020**, 127, 109876	16.2	98
196	Effect of red kaolin on the diversity of functional genes based on Kyoto Encyclopedia of Genes and Genomes pathways during chicken manure composting. *Bioresource Technology*, **2020**, 311, 123584	11	8
195	Time-course transcriptome analysis reveals the mechanisms of Burkholderia sp. adaptation to high phenol concentrations. *Applied Microbiology and Biotechnology*, **2020**, 104, 5873-5887	5.7	6
194	An assessment of the functional enzymes and corresponding genes in chicken manure and wheat straw composted with addition of clay via meta-genomic analysis. *Industrial Crops and Products*, **2020**, 153, 112573	5.9	7
193	Temporal and spatial variation of soil microorganisms and nutrient under white clover cover. *Soil and Tillage Research*, **2020**, 202, 104666	6.5	9
192	Manure pretreatments with black soldier fly Hermetia illucens L. (Diptera: Stratiomyidae): A study to reduce pathogen content. *Science of the Total Environment*, **2020**, 737, 139842	10.2	26

191	Exploring the microbial mechanisms of organic matter transformation during pig manure composting amended with bean dregs and biochar. *Bioresource Technology*, **2020**, 313, 123647	11	34
190	Simultaneous aerobic denitrification and antibiotics degradation by strain Marinobacter hydrocarbonoclasticus RAD-2. *Bioresource Technology*, **2020**, 313, 123609	11	13
189	Impact of the addition of black soldier fly larvae on humification and speciation of trace elements during manure composting. *Industrial Crops and Products*, **2020**, 154, 112657	5.9	12
188	Application of electrochemical treatment for the removal of triazine dye using aluminium electrodes **2020**, 69, 345-354		20
187	Metagenomics for taxonomy profiling: tools and approaches. *Bioengineered*, **2020**, 11, 356-374	5.7	62
186	Evaluation of biochar amendment on heavy metal resistant bacteria abundance in biosolids compost. *Bioresource Technology*, **2020**, 306, 123114	11	8
185	Connecting soil dissolved organic matter to soil bacterial community structure in a long-term grass-mulching apple orchard. *Industrial Crops and Products*, **2020**, 149, 112344	5.9	12
184	Mulching practices alter soil microbial functional diversity and benefit to soil quality in orchards on the Loess Plateau. *Journal of Environmental Management*, **2020**, 271, 110985	7.9	10
183	Effect of fine coal gasification slag on improvement of bacterial diversity community during the pig manure composting. *Bioresource Technology*, **2020**, 304, 123024	11	14
182	Thermal instability in a horizontal composite nano-liquid layer. *SN Applied Sciences*, **2020**, 2, 1	1.8	4
181	Succession of keratin-degrading bacteria and associated health risks during pig manure composting. *Journal of Cleaner Production*, **2020**, 258, 120624	10.3	18
180	Earthworms and vermicompost: an eco-friendly approach for repaying nature's debt. *Environmental Geochemistry and Health*, **2020**, 42, 1617-1642	4.7	22
179	Emerging applications of biochar: Improving pig manure composting and attenuation of heavy metal mobility in mature compost. *Journal of Hazardous Materials*, **2020**, 389, 122116	12.8	48
178	Effect of biochar on emission, maturity and bacterial dynamics during sheep manure compositing. *Renewable Energy*, **2020**, 152, 421-429	8.1	18
177	Compressibility effects on the Kelvin–Helmholtz and Rayleigh–Taylor instabilities between two immiscible fluids flowing through a porous medium. *European Physical Journal Plus*, **2020**, 135, 1	3.1	3
176	Anaerobic digestion of food waste to volatile fatty acids and hydrogen at high organic loading rates in immersed membrane bioreactors. *Renewable Energy*, **2020**, 152, 1140-1148	8.1	49
175	The diversity of microbial community and function varied in response to different agricultural residues composting. *Science of the Total Environment*, **2020**, 715, 136983	10.2	30
174	Influence of bamboo biochar on mitigating greenhouse gas emissions and nitrogen loss during poultry manure composting. *Bioresource Technology*, **2020**, 303, 122952	11	47

173	Relevance of biochar to influence the bacterial succession during pig manure composting. *Bioresource Technology*, **2020**, 304, 122962	11	49
172	Arbuscular mycorrhizal fungi increase the bioavailability and wheat (Triticum aestivum L.) uptake of selenium in soil. *Industrial Crops and Products*, **2020**, 150, 112383	5.9	8
171	Seasonal variation of net ecosystem CO exchange and its influencing factors in an apple orchard in the Loess Plateau. *Environmental Science and Pollution Research*, **2020**, 27, 43452-43465	5.1	6
170	Improvement of humification and mechanism of nitrogen transformation during pig manure composting with Black Tourmaline. *Bioresource Technology*, **2020**, 307, 123236	11	26
169	Capillary Instability of Viscoelastic Liquid Film With Heat and Mass Transfer. *Journal of Heat Transfer*, **2020**, 142,	1.8	4
168	Instability of a Radially Moving Cylindrical Surface: A Viscous Potential Flow Approach. *Journal of Fluids Engineering, Transactions of the ASME*, **2020**, 142,	2.1	2
167	Modeling CO exchange and meteorological factors of an apple orchard using partial least square regression. *Environmental Science and Pollution Research*, **2020**, 27, 43439-43451	5.1	4
166	Comparative analysis of prediction models for methane potential based on spent edible fungus substrate. *Bioresource Technology*, **2020**, 317, 124052	11	17
165	Organic solid waste biorefinery: Sustainable strategy for emerging circular bioeconomy in China. *Industrial Crops and Products*, **2020**, 153, 112568	5.9	51
164	Assessing the impact of industrial waste on environment and mitigation strategies: A comprehensive review. *Journal of Hazardous Materials*, **2020**, 398, 123019	12.8	38
163	Measurement of cow manure compost toxicity and maturity based on weed seed germination. *Journal of Cleaner Production*, **2020**, 245, 118894	10.3	26
162	Resource recovery and circular economy from organic solid waste using aerobic and anaerobic digestion technologies. *Bioresource Technology*, **2020**, 301, 122778	11	152
161	Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. *Energy and Environment*, **2020**, 0958305X1989678	2.4	16
160	Effects of microbial culture and chicken manure biochar on compost maturity and greenhouse gas emissions during chicken manure composting. *Journal of Hazardous Materials*, **2020**, 389, 121908	12.8	76
159	Compost supplementation with nitrogen loss and greenhouse gas emissions during pig manure composting. *Bioresource Technology*, **2020**, 297, 122435	11	30
158	Effect of biochar and bacterial inoculum additions on cow dung composting. *Bioresource Technology*, **2020**, 297, 122407	11	37
157	Effects of black soldier fly larvae (Diptera: Stratiomyidae) on food waste and sewage sludge composting. *Journal of Environmental Management*, **2020**, 256, 109967	7.9	23
156	Stability analysis between two concentric rotating cylinders with heat and mass transfer. *Heat Transfer*, **2020**, 49, 971-983	3.1	3

155	Changes in global trends in food waste composting: Research challenges and opportunities. *Bioresource Technology*, **2020**, 299, 122555	11	70
154	Behaviors and related mechanisms of Zn resistance and antibiotic resistance genes during co-composting of erythromycin manufacturing wastes and pig manure. *Bioresource Technology*, **2020**, 318, 124048	11	7
153	Pressure corrections for viscous potential flow analysis of Rayleigh-Taylor instability of swirling annular layer **2020**,		1
152	Microbial driving mechanism of biochar and bean dregs on NH and NO emissions during composting. *Bioresource Technology*, **2020**, 315, 123829	11	25
151	Recycling of leather industrial sludge through vermitechnology for a cleaner environment: A review. *Industrial Crops and Products*, **2020**, 155, 112791	5.9	12
150	Sustainability analysis of large-scale food waste composting **2020**, 301-322		2
149	Rayleigh-Taylor instability in a spherical configuration: A viscous potential flow approach. *Chinese Journal of Physics*, **2020**, 68, 866-873	3.5	1
148	Influence of fine coal gasification slag on greenhouse gases emission and volatile fatty acids during pig manure composting. *Bioresource Technology*, **2020**, 316, 123915	11	20
147	Implications of endophytic microbiota in : a review on current understanding and future insights. *Bioengineered*, **2020**, 11, 1001-1015	5.7	13
146	Compost biochar application to contaminated soil reduces the (im)mobilization and phytoavailability of lead and copper. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 408-417	3.5	11
145	Aerobic denitrification performance and nitrate removal pathway analysis of a novel fungus Fusarium solani RADF-77. *Bioresource Technology*, **2020**, 295, 122250	11	28
144	Mulching practices alter the bacterial-fungal community and network in favor of soil quality in a semiarid orchard system. *Science of the Total Environment*, **2020**, 725, 138527	10.2	20
143	Current status of global warming potential reduction by cleaner composting. *Energy and Environment*, **2019**, 0958305X1988241	2.4	1
142	Effect of tertiary-amine bentonite on carbon transformation and global warming potential during chicken manure composting. *Journal of Cleaner Production*, **2019**, 237, 117818	10.3	12
141	Respond of clay amendment in chicken manure composts to understand the antibiotic resistant bacterial diversity and its correlation with physicochemical parameters. *Journal of Cleaner Production*, **2019**, 236, 117715	10.3	23
140	Bioengineering of anaerobic digestion for volatile fatty acids, hydrogen or methane production: A critical review. *Bioengineered*, **2019**, 10, 437-458	5.7	189
139	Performance of black soldier fly larvae (Diptera: Stratiomyidae) for manure composting and production of cleaner compost. *Journal of Environmental Management*, **2019**, 251, 109593	7.9	35
138	Global Status of Waste-to-Energy Technology **2019**, 31-52		6

137	Biofuel Production From Biomass: Toward Sustainable Development **2019**, 79-92		25
136	Positive impact of biochar alone and combined with bacterial consortium amendment on improvement of bacterial community during cow manure composting. *Bioresource Technology*, **2019**, 280, 79-87	11	66
135	A critical review of organic manure biorefinery models toward sustainable circular bioeconomy: Technological challenges, advancements, innovations, and future perspectives. *Renewable and Sustainable Energy Reviews*, **2019**, 111, 115-131	16.2	105
134	Effect of bean dregs on nitrogen transformation and bacterial dynamics during pig manure composting. *Bioresource Technology*, **2019**, 288, 121430	11	35
133	Improvement of cleaner composting production by adding Diatomite: From the nitrogen conservation and greenhouse gas emission. *Bioresource Technology*, **2019**, 286, 121377	11	46
132	Role of compost biochar amendment on the (im)mobilization of cadmium and zinc for Chinese cabbage (Brassica rapa L.) from contaminated soil. *Journal of Soils and Sediments*, **2019**, 19, 3883-3897	3.4	14
131	The behavior of antibiotic resistance genes and their associations with bacterial community during poultry manure composting. *Bioresource Technology*, **2019**, 280, 70-78	11	48
130	Effects of clay on nitrogen cycle related functional genes abundance during chicken manure composting. *Bioresource Technology*, **2019**, 291, 121886	11	19
129	Sustainable Composting and Its Environmental Implications **2019**, 115-132		9
128	Sustainable Management of Solid Waste **2019**, 79-99		9
127	Evaluation of integrated biochar with bacterial consortium on gaseous emissions mitigation and nutrients sequestration during pig manure composting. *Bioresource Technology*, **2019**, 291, 121880	11	31
126	Response of bamboo biochar amendment on volatile fatty acids accumulation reduction and humification during chicken manure composting. *Bioresource Technology*, **2019**, 291, 121845	11	40
125	Microbial dynamics for lignocellulosic waste bioconversion and its importance with modern circular economy, challenges and future perspectives. *Bioresource Technology*, **2019**, 291, 121905	11	62
124	Application of metagenomic analysis for detection of the reduction in the antibiotic resistance genes (ARGs) by the addition of clay during poultry manure composting. *Chemosphere*, **2019**, 220, 137-145	8.4	25
123	Greenhouse Gases Emission Mitigation and Utilization in Composting and Waste Management Industry: Potentials and Challenges. *Energy, Environment, and Sustainability*, **2019**, 19-37	0.8	2
122	Dynamics of fungal diversity and interactions with environmental elements in response to wheat straw biochar amended poultry manure composting. *Bioresource Technology*, **2019**, 274, 410-417	11	28
121	Evaluating the impact of bamboo biochar on the fungal community succession during chicken manure composting. *Bioresource Technology*, **2019**, 272, 308-314	11	38
120	High-efficiency removal of Pb(II) and humate by a CeO-MoS hybrid magnetic biochar. *Bioresource Technology*, **2019**, 273, 335-340	11	115

119	Rayleigh□Taylor Instability of Swirling Annular Layer With Mass Transfer. *Journal of Fluids Engineering, Transactions of the ASME*, **2019**, 141,	2.1	7
118	An assessment of the persistence of pathogenic bacteria removal in chicken manure compost employing clay as additive via meta-genomic analysis. *Journal of Hazardous Materials*, **2019**, 366, 184-191	12.8	37
117	Decontamination of Hg(II) from aqueous solution using polyamine-co-thiourea inarched chitosan gel derivatives. *International Journal of Biological Macromolecules*, **2018**, 113, 106-115	7.9	32
116	Improvement of biochar and bacterial powder addition on gaseous emission and bacterial community in pig manure compost. *Bioresource Technology*, **2018**, 258, 195-202	11	95
115	Converting spent battery anode waste into a porous biocomposite with high Pb(II) ion capture capacity from solution. *Journal of Cleaner Production*, **2018**, 184, 622-631	10.3	16
114	Role of Ca-bentonite to improve the humification, enzymatic activities, nutrient transformation and end product quality during sewage sludge composting. *Bioresource Technology*, **2018**, 262, 80-89	11	21
113	Feasibility of medical stone amendment for sewage sludge co-composting and production of nutrient-rich compost. *Journal of Environmental Management*, **2018**, 216, 49-61	7.9	21
112	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. *Journal of Environmental Management*, **2018**, 212, 77-87	7.9	58
111	Combining biochar, zeolite and wood vinegar for composting of pig manure: The effect on greenhouse gas emission and nitrogen conservation. *Waste Management*, **2018**, 74, 221-230	8.6	113
110	Effect of composting on the thermal decomposition behavior and kinetic parameters of pig manure-derived solid waste. *Bioresource Technology*, **2018**, 252, 59-65	11	38
109	Improving methane yield and quality via co-digestion of cow dung mixed with food waste. *Bioresource Technology*, **2018**, 251, 259-263	11	29
108	Onset of triply diffusive convection in a Maxwell fluid saturated porous layer with internal heat source. *Ain Shams Engineering Journal*, **2018**, 9, 1591-1600	4.4	8
107	In-vessel co-composting of biosolid: Focusing on mitigation of greenhouse gases emissions and nutrients conservation. *Renewable Energy*, **2018**, 129, 814-823	8.1	23
106	Biodegradation of food waste using microbial cultures producing thermostable □amylase and cellulase under different pH and temperature. *Bioresource Technology*, **2018**, 248, 160-170	11	58
105	Bio-degradation of oily food waste employing thermophilic bacterial strains. *Bioresource Technology*, **2018**, 248, 141-147	11	31
104	Influence of medical stone amendment on gaseous emissions, microbial biomass and abundance of ammonia oxidizing bacteria genes during biosolids composting. *Bioresource Technology*, **2018**, 247, 970-979	11	65
103	Experimental Analysis of 3D Printed Microfluidic Device for Detection of Adulteration in Fluids. *Springer Proceedings in Energy*, **2018**, 39-46	0.2	
102	Effect of pyrolysis temperature on chemical form, behavior and environmental risk of Zn, Pb and Cd in biochar produced from phytoremediation residue. *Bioresource Technology*, **2018**, 249, 487-493	11	85

101	Beneficial effect of mixture of additives amendment on enzymatic activities, organic matter degradation and humification during biosolids co-composting. *Bioresource Technology*, **2018**, 247, 138-146	11	27
100	Succession of bacteria diversity in the poultry manure composted mixed with clay: Studies upon its dynamics and associations with physicochemical and gaseous parameters. *Bioresource Technology*, **2018**, 267, 618-625	11	55
99	New insight of tertiary-amine modified bentonite amendment on the nitrogen transformation and volatile fatty acids during the chicken manure composting. *Bioresource Technology*, **2018**, 266, 524-531	11	34
98	Performance evaluation of gaseous emissions and Zn speciation during Zn-rich antibiotic manufacturing wastes and pig manure composting. *Bioresource Technology*, **2018**, 267, 688-695	11	35
97	Recovery of phosphate and dissolved organic matter from aqueous solution using a novel CaO-MgO hybrid carbon composite and its feasibility in phosphorus recycling. *Science of the Total Environment*, **2018**, 642, 526-536	10.2	106
96	Dynamics of soil microbial biomass and enzyme activities along a chronosequence of desertified land revegetation. *Ecological Engineering*, **2018**, 111, 22-30	3.9	47
95	Nitrate removal by combined heterotrophic and autotrophic denitrification processes: Impact of coexistent ions. *Bioresource Technology*, **2018**, 250, 838-845	11	39
94	Influence of biochar on volatile fatty acids accumulation and microbial community succession during biosolids composting. *Bioresource Technology*, **2018**, 251, 158-164	11	48
93	Evaluation of microbial dynamics during post-consumption food waste composting. *Bioresource Technology*, **2018**, 251, 181-188	11	23
92	Mitigation of Global Warming Potential for Cleaner Composting. *Energy, Environment, and Sustainability*, **2018**, 271-305	0.8	1
91	Recent Advances in Composting of Organic and Hazardous Waste: A Road Map to Safer Environment. *Energy, Environment, and Sustainability*, **2018**, 307-329	0.8	2
90	The dynamic of cellulase activity of fungi inhabiting organic municipal solid waste. *Bioresource Technology*, **2018**, 251, 411-415	11	27
89	In-Vessel Co-Composting of Food Waste Employing Enriched Bacterial Consortium. *Food Technology and Biotechnology*, **2018**, 56, 83-89	2.1	8
88	Comparative evaluation of the use of acidic additives on sewage sludge composting quality improvement, nitrogen conservation, and greenhouse gas reduction. *Bioresource Technology*, **2018**, 270, 467-475	11	57
87	Influence of clay as additive on greenhouse gases emission and maturity evaluation during chicken manure composting. *Bioresource Technology*, **2018**, 266, 82-88	11	77
86	Utilization of medical stone to improve the composition and quality of dissolved organic matter in composted pig manure. *Journal of Cleaner Production*, **2018**, 197, 472-478	10.3	33
85	Heterogeneity of biochar amendment to improve the carbon and nitrogen sequestration through reduce the greenhouse gases emissions during sewage sludge composting. *Bioresource Technology*, **2017**, 224, 428-438	11	167
84	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. *Bioresource Technology*, **2017**, 237, 156-166	11	95

83	Spatial distribution and risk assessment of heavy metals in soil near a Pb/Zn smelter in Feng County, China. *Ecotoxicology and Environmental Safety*, **2017**, 139, 254-262	7	150
82	New insight with the effects of biochar amendment on bacterial diversity as indicators of biomarkers support the thermophilic phase during sewage sludge composting. *Bioresource Technology*, **2017**, 238, 589-601	11	101
81	Effect of calcium bentonite on Zn and Cu mobility and their accumulation in vegetable growth in soil amended with compost during consecutive planting. *Environmental Science and Pollution Research*, **2017**, 24, 15645-15654	5.1	12
80	Comparison of biochar, zeolite and their mixture amendment for aiding organic matter transformation and nitrogen conservation during pig manure composting. *Bioresource Technology*, **2017**, 245, 300-308	11	68
79	Critical evaluation of post-consumption food waste composting employing thermophilic bacterial consortium. *Bioresource Technology*, **2017**, 245, 665-672	11	29
78	Recent developments in biochar utilization as an additive in organic solid waste composting: A review. *Bioresource Technology*, **2017**, 246, 203-213	11	149
77	Effects of biochar amendment on bacterial and fungal diversity for co-composting of gelatin industry sludge mixed with organic fraction of municipal solid waste. *Bioresource Technology*, **2017**, 246, 214-223	11	53
76	Potential use of lime combined with additives on (im)mobilization and phytoavailability of heavy metals from Pb/Zn smelter contaminated soils. *Ecotoxicology and Environmental Safety*, **2017**, 145, 313-323	7	66
75	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. *Ecotoxicology and Environmental Safety*, **2017**, 145, 528-538	7	41
74	Heterogeneity of zeolite combined with biochar properties as a function of sewage sludge composting and production of nutrient-rich compost. *Waste Management*, **2017**, 68, 760-773	8.6	60
73	Removal of Cd(II) and Cr(VI) ions by highly cross-linked Thiocarbohydrazide-chitosan gel. *International Journal of Biological Macromolecules*, **2017**, 104, 1072-1081	7.9	41
72	Improvement of pig manure compost lignocellulose degradation, organic matter humification and compost quality with medical stone. *Bioresource Technology*, **2017**, 243, 771-777	11	77
71	Comparison of additives amendment for mitigation of greenhouse gases and ammonia emission during sewage sludge co-composting based on correlation analysis. *Bioresource Technology*, **2017**, 243, 520-527	11	51
70	Use of Biochar as an Amendment for Remediation of Heavy Metal-Contaminated Soils: Prospects and Challenges. *Pedosphere*, **2017**, 27, 991-1014	5	103
69	Reduced differential transform method to solve two and three dimensional second order hyperbolic telegraph equations. *Journal of King Saud University, Engineering Sciences*, **2017**, 29, 166-171	2.2	15
68	Steady MHD Flow of Nano-Fluids over a Rotating Porous Disk in the Presence of Heat Generation/Absorption: a Numerical Study using PSO. *Journal of Applied Fluid Mechanics*, **2017**, 10, 871-879	1.5	6
67	Soil Amendments for Heavy Metal Immobilization Using Different Crops **2016**, 371-399		0
66	Composting for Organic Waste Management **2016**, 233-272		4

65	Effect of biochar amendment on greenhouse gas emission and bio-availability of heavy metals during sewage sludge co-composting. *Journal of Cleaner Production*, **2016**, 135, 829-835	10.3	123
64	Influence of zeolite and lime as additives on greenhouse gas emissions and maturity evolution during sewage sludge composting. *Bioresource Technology*, **2016**, 216, 172-81	11	122
63	Improving pig manure composting efficiency employing Ca-bentonite. *Ecological Engineering*, **2016**, 87, 157-161	3.9	89
62	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. *Bioresource Technology*, **2016**, 213, 181-189	11	126
61	Recovery of phosphate from aqueous solution by magnesium oxide decorated magnetic biochar and its potential as phosphate-based fertilizer substitute. *Bioresource Technology*, **2016**, 215, 209-214	11	198
60	Challenges and opportunities in the phytoremediation of heavy metals contaminated soils: A review. *Ecotoxicology and Environmental Safety*, **2016**, 126, 111-121	7	623
59	Onset of Triple-Diffusive Convection in a Nanofluid Layer. *Journal of Nanofluids*, **2016**, 5, 284-291	2.2	4
58	Atmospheric Deposition-Carried Zn and Cd from a Zinc Smelter and Their Effects on Soil Microflora as Revealed by 16S rDNA. *Scientific Reports*, **2016**, 6, 39148	4.9	16
57	Nonlinear Study of Kelvin-Helmholtz instability of cylindrical flow with mass and heat transfer. *International Communications in Heat and Mass Transfer*, **2016**, 71, 216-224	5.8	5
56	Enhancing phosphate adsorption by Mg/Al layered double hydroxide functionalized biochar with different Mg/Al ratios. *Science of the Total Environment*, **2016**, 559, 121-129	10.2	308
55	Evaluation of medical stone amendment for the reduction of nitrogen loss and bioavailability of heavy metals during pig manure composting. *Bioresource Technology*, **2016**, 220, 297-304	11	212
54	Impact of CaO, fly ash, sulfur and NaS on the (im)mobilization and phytoavailability of Cd, Cu and Pb in contaminated soil. *Ecotoxicology and Environmental Safety*, **2016**, 134P1, 116-123	7	54
53	Role of biochar amendment in mitigation of nitrogen loss and greenhouse gas emission during sewage sludge composting. *Bioresource Technology*, **2016**, 219, 270-280	11	123
52	Viscous potential flow analysis of magnetohydrodynamic capillary instability with heat and mass transfer. *Ain Shams Engineering Journal*, **2015**, 6, 1113-1120	4.4	1
51	Viscous potential flow analysis of electrohydrodynamic capillary instability with heat and mass transfer: Effect of free surface charge. *International Journal of Applied Electromagnetics and Mechanics*, **2015**, 47, 453-465	0.4	0
50	Co-composting of organic fraction of municipal solid waste mixed with different bulking waste: characterization of physicochemical parameters and microbial enzymatic dynamic. *Bioresource Technology*, **2015**, 182, 200-207	11	124
49	HYDRODYNAMIC AND HYDROMAGNETIC TRIPLY DIFFUSIVE CONVECTION IN A VISCOELASTIC FLUID THROUGH POROUS MEDIUM. *Special Topics and Reviews in Porous Media*, **2015**, 6, 297-311	2.5	3
48	Evaporative capillary instability for flow in porous media under the influence of axial electric field. *Physics of Plasmas*, **2014**, 21, 042105	2.1	2

47	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. *Egyptian Journal of Basic and Applied Sciences*, **2014**, 1, 60-66	1.3	34
46	Kelvin-Helmholtz instability with mass transfer through porous media: Effect of irrotational viscous pressure. *Journal of Hydrodynamics*, **2014**, 26, 624-636	3.3	0
45	Viscous correction for the viscous potential flow analysis of Kelvin–Helmholtz instability of cylindrical flow with heat and mass transfer. *International Journal of Heat and Mass Transfer*, **2014**, 78, 251-259	4.9	18
44	Viscous Potential Flow Analysis of Kelvin–Helmholtz Instability of a Cylindrical Flow with Heat and Mass Transfer. *Heat Transfer - Asian Research*, **2014**, 43, 489-503	2.8	8
43	Nonlinear analysis of capillary instability with mass transfer through porous media. *European Physical Journal Plus*, **2014**, 129, 1	3.1	2
42	Nonlinear Rayleigh–Taylor instability of cylindrical flow with mass transfer through porous media. *International Communications in Heat and Mass Transfer*, **2014**, 56, 79-85	5.8	4
41	Two-dimensional time fractional-order biological population model and its analytical solutionPeer review under responsibility of Mansoura UniversityView all notes. *Egyptian Journal of Basic and Applied Sciences*, **2014**, 1, 71-76	1.3	38
40	(1+n)-Dimensional Burgers' equation and its analytical solution: A comparative study of HPM, ADM and DTM. *Ain Shams Engineering Journal*, **2014**, 5, 533-541	4.4	16
39	Electrohydrodynamic Kelvin–Helmholtz instability with heat and mass transfer: Effect of perpendicular electric field. *Ain Shams Engineering Journal*, **2014**, 5, 605-612	4.4	2
38	Electrohydrodynamic capillary instability with heat and mass transfer. *Ain Shams Engineering Journal*, **2014**, 5, 263-270	4.4	4
37	Evaluation of thermophilic fungal consortium for organic municipal solid waste composting. *Bioresource Technology*, **2014**, 168, 214-21	11	195
36	Numerical approximation for HIV infection of CD4+ T cells mathematical model. *Ain Shams Engineering Journal*, **2014**, 5, 625-629	4.4	31
35	Study on Kelvin–Helmholtz Instability With Heat and Mass Transfer. *Journal of Fluids Engineering, Transactions of the ASME*, **2014**, 136,	2.1	4
34	Study on electrohydrodynamic Rayleigh-Taylor instability with heat and mass transfer. *Scientific World Journal, The*, **2014**, 2014, 485807	2.2	1
33	Three-dimensional magnetohydrodynamic Kelvin–Helmholtz instability of cylindrical flow with permeable boundaries. *Physics of Plasmas*, **2014**, 21, 032124	2.1	4
32	Study on Capillary Instability With Heat and Mass Transfer Through Porous Media: Effect of Irrotational Viscous Pressure. *Journal of Fluids Engineering, Transactions of the ASME*, **2014**, 136,	2.1	2
31	Reduced differential transform method for solving (1+n) Dimensional Burgers' equationPeer review under responsibility of Mansoura UniversityView all notes. *Egyptian Journal of Basic and Applied Sciences*, **2014**, 1, 115-119	1.3	16
30	One-dimensional coupled Burgers' equation and its numerical solution by an implicit logarithmic finite-difference method. *AIP Advances*, **2014**, 4, 037119	1.5	26

29	STUDY ON ELECTROHYDRODYNAMIC CAPILLARY INSTABILITY OF VISCOELASTIC FLUIDS WITH RADIAL ELECTRIC FIELD. *International Journal of Applied Mechanics*, **2014**, 06, 1450037	2.4	1
28	Magnetoviscous potential flow analysis of Kelvin–Helmholtz instability with heat and mass transfer. *Applied Mathematical Modelling*, **2014**, 38, 5490-5501	4.5	1
27	Viscous potential flow analysis of magnetohydrodynamic Rayleigh–Taylor instability with heat and mass transfer. *International Journal of Dynamics and Control*, **2014**, 2, 254-261	1.7	5
26	Study on hydro-magnetic capillary instability with mass transfer through porous media. *International Journal of Dynamics and Control*, **2013**, 1, 164-171	1.7	2
25	Study on magnetohydrodynamic Kelvin-Helmholtz instability with mass transfer through porous media. *European Physical Journal Plus*, **2013**, 128, 1	3.1	2
24	RDTM solution of Caputo time fractional-order hyperbolic telegraph equation. *AIP Advances*, **2013**, 3, 032142	1.5	34
23	Pressure corrections for viscous potential flow analysis of radial fingering in Hele-Shaw cell. *Journal of Engineering Mathematics*, **2013**, 83, 131-142	1.2	1
22	Viscous potential flow analysis of capillary instability with heat and mass transfer through porous media. *International Communications in Heat and Mass Transfer*, **2013**, 40, 7-11	5.8	15
21	Viscous correction for the viscous potential flow analysis of capillary instability with heat and mass transfer. *Journal of Engineering Mathematics*, **2013**, 80, 75-89	1.2	5
20	Viscous Corrections for the Viscous Potential Flow Analysis of Rayleigh–Taylor Instability With Heat and Mass Transfer. *Journal of Heat Transfer*, **2013**, 135,	1.8	9
19	Viscous corrections for the viscous potential flow analysis of electrohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer. *International Journal of Applied Electromagnetics and Mechanics*, **2013**, 42, 283-301	0.4	1
18	The Telegraph Equation and Its Solution by Reduced Differential Transform Method. *Modelling and Simulation in Engineering*, **2013**, 2013, 1-6	1.3	15
17	Viscous Potential Flow Analysis of Electroaerodynamic Instability of a Liquid Sheet Sprayed with an Air Stream. *Modelling and Simulation in Engineering*, **2013**, 2013, 1-6	1.3	
16	Numerical solutions of coupled Burgers' equations by an implicit finite-difference scheme. *AIP Advances*, **2013**, 3, 082131	1.5	19
15	AN IMPLICIT FINITE-DIFFERENCE SOLUTION TO ONE-DIMENSIONAL COUPLED BURGERS' EQUATIONS. *Asian-European Journal of Mathematics*, **2013**, 06, 1350058	0.4	10
14	Viscous potential flow analysis of electrohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer: Effect of free surface charge. *International Journal of Applied Electromagnetics and Mechanics*, **2013**, 41, 407-418	0.4	
13	An implicit logarithmic finite-difference technique for two dimensional coupled viscous Burgers' equation. *AIP Advances*, **2013**, 3, 122105	1.5	21
12	Nonlinear Analysis of Rayleigh–Taylor Instability of Cylindrical Flow With Heat and Mass Transfer. *Journal of Fluids Engineering, Transactions of the ASME*, **2013**, 135,	2.1	9

11	Viscous Potential Flow Analysis of Nonlinear Rayleigh□Taylor Instability with Heat and Mass Transfer. *Microgravity Science and Technology*, **2012**, 24, 351-363	1.6	10
10	Viscous corrections for the viscous potential flow analysis of magnetohydrodynamic Kelvin-Helmholtz instability with heat and mass transfer. *European Physical Journal A*, **2012**, 48, 1	2.5	11
9	Pressure corrections for the potential flow analysis of Kelvin□Helmholtz instability with heat and mass transfer. *International Journal of Heat and Mass Transfer*, **2012**, 55, 2345-2352	4.9	18
8	Nonlinear analysis of capillary instability with heat and mass transfer. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 2463-2475	3.7	28
7	VISCOUS CONTRIBUTIONS TO THE PRESSURE FOR THE POTENTIAL FLOW ANALYSIS OF MAGNETOHYDRODYNAMIC KELVIN□HELMHOLTZ INSTABILITY. *International Journal of Applied Mechanics*, **2012**, 04, 1250001	2.4	9
6	PRESSURE CORRECTIONS FOR THE VISCOELASTIC POTENTIAL FLOW ANALYSIS OF ELECTROHYDRODYNAMIC CAPILLARY INSTABILITY. *International Journal of Applied Mechanics*, **2012**, 04, 1250047	2.4	2
5	STUDY ON ELECTROHYDRODYNAMIC CAPILLARY INSTABILITY OF VISCOELASTIC FLUIDS IN PRESENCE OF AXIAL ELECTRIC FIELD. *International Journal of Applied Mechanics*, **2012**, 04, 1250027	2.4	5
4	Pressure Corrections for the Potential Flow Analysis of Kelvin-Helmholtz Instability. *Applied Mechanics and Materials*, **2011**, 110-116, 4628-4635	0.3	4
3	Viscous Potential Flow Analysis of Rayleigh-Taylor Instability of Cylindrical Interface. *Applied Mechanics and Materials*, **2011**, 110-116, 769-775	0.3	2
2	The Horton□Rogers□Lapwood problem in a Jeffrey fluid influenced by a vertical magnetic field. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*,095440892110311	1.5	4
1	Stability characteristics of Walters□ B viscoelastic fluid in a cylindrical configuration with heat transfer. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*,095440622211018	1.3	1