Amar Tilmatine

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7828362/publications.pdf

Version: 2024-02-01

71	967	516710 16	501196 28
papers	citations	h-index	g-index

71	71	71	346
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrostatic separators of particles: Application to plastic/metal, metal/metal and plastic/plastic mixtures. Waste Management, 2009, 29, 228-232.	7.4	121
2	Roll-Type Versus Free-Fall Electrostatic Separation of Tribocharged Plastic Particles. IEEE Transactions on Industry Applications, 2010, 46, 1564-1569.	4.9	71
3	Modeling and optimization of a propeller-type tribocharger for granular materials. Journal of Electrostatics, 2011, 69, 631-637.	1.9	60
4	Set Point Identification and Robustness Testing of Electrostatic Separation Processes. IEEE Transactions on Industry Applications, 2007, 43, 618-626.	4.9	57
5	Experimental Comparative Study of Different Tribocharging Devices for Triboelectric Separation of Insulating Particles. IEEE Transactions on Industry Applications, 2013, 49, 1113-1118.	4.9	35
6	New Hybrid Surfaceâ€“Volume Dielectric Barrier Discharge Reactor for Ozone Generation. IEEE Transactions on Industry Applications, 2017, 53, 2477-2484.	4.9	34
7	Numerical Modeling of Conductive Particle Trajectories in Roll-Type Corona-Electrostatic Separators. IEEE Transactions on Industry Applications, 2007, 43, 1130-1136.	4.9	33
8	Characterization of Dual Corona-Electrostatic Electrodes for Electrostatic Processes Applications. IEEE Transactions on Industry Applications, 2008, 44, 692-698.	4.9	33
9	Study of charged particles trajectories in free-fall electrostatic separators. Journal of Electrostatics, 2017, 88, 10-14.	1.9	32
10	Experimental analysis of a cyclone tribocharging device for free-fall triboelectric separation of plastic particles. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1584-1589.	2.9	26
11	Experimental Study of the Optimum Operating Conditions of a Pilot-Scale Tribo-Aero-Electrostatic Separator for Mixed Granular Solids. IEEE Transactions on Industry Applications, 2013, 49, 699-706.	4.9	26
12	Optimal Sizing of a DBD Ozone Generator Using Response Surface Modeling. Ozone: Science and Engineering, 2015, 37, 3-8.	2.5	22
13	Comparative Experimental Study between Surface and Volume DBD Ozone Generator. Ozone: Science and Engineering, 2016, 38, 70-76.	2.5	22
14	Numerical Modeling of Insulating Particles Trajectories in Roll-type Corona-Electrostatic Separators. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 629-634.	2.9	19
15	Experimental Investigation of a New Triboelectrostatic Separation Process for Mixed Fine Granular Plastics. IEEE Transactions on Industry Applications, 2014, 50, 4245-4250.	4.9	19
16	Experimental Investigation of Electrostatic Separators of Plastic Particles using Different Charging Devices. Separation Science and Technology, 2014, 49, 464-468.	2.5	19
17	Micronized plastic waste recycling using two-disc tribo-electrostatic separation process. Advanced Powder Technology, 2019, 30, 625-631.	4.1	17
18	Improved Overall Performances of a Tribo-Aero-Electrostatic Separator for Granular Plastics From Waste Electric and Electronic Equipment. IEEE Transactions on Industry Applications, 2015, 51, 4159-4165.	4.9	16

#	Article	IF	Citations
19	Comparative experimental analysis of ozone generation between surface and volume DBD generators. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 428-434.	2.9	16
20	Optimization of Belt-Type Electrostatic Separation of Triboaerodynamically Charged Granular Plastic Mixtures. IEEE Transactions on Industry Applications, 2013, 49, 1781-1786.	4.9	15
21	Experimental Study of Corona Discharge Generated in a Modified Wireâ€“Plate Electrode Configuration for Electrostatic Process Applications. IEEE Transactions on Industry Applications, 2010, 46, 666-671.	4.9	14
22	Experimental Modeling of a New Triboelectrostatic Separation Process for Mixed Granular Polymers. IEEE Transactions on Industry Applications, 2013, 49, 2375-2381.	4.9	14
23	New separation technique of metal/polymer granular materials using an electrostatic sorting device. Journal of Electrostatics, 2020, 103, 103410.	1.9	13
24	Using a vibrating electrical curtain conveyor for separation of plastic/metal particles. Powder Technology, 2020, 373, 267-273.	4.2	13
25	Comparative Experimental Study of Triboelectric Charging of Two Size Classes of Granular Plastics. Particulate Science and Technology, 2015, 33, 652-658.	2.1	12
26	Numerical Simulation of the Trajectories of Insulating Particles in a Tribo-Aero-Electrostatic Separator. IEEE Transactions on Industry Applications, 2015, 51, 4151-4158.	4.9	11
27	Tribo-electrostatic separation of a quaternary granular mixture of plastics. Particulate Science and Technology, 2019, 37, 764-769.	2.1	11
28	Experimental investigation of an electrostatic adhesion device used for metal/polymer granular mixture sorting. Powder Technology, 2021, 391, 301-310.	4.2	11
29	CaractÃ©risation expÃ©rimentale des Ã©lectrodes couronne de type Â«dualÂ». Journal of Electrostatics, 2006, 64, 431-436.	1.9	10
30	Numerical simulation of the continuous operation of a tribo-aero-electrostatic separator for mixed granular solids. Journal of Electrostatics, 2013, 71, 867-874.	1.9	10
31	Study of DBD precipitator energized by a modified square waveform voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1540-1546.	2.9	10
32	New separation method of metal/plastic micronized particles using travelling wave conveyors. International Journal of Environmental Studies, 2018, 75, 788-799.	1.6	9
33	Experimental Analysis of a Vibrating Tribocharging Device of Plastic Particles for a Free-Fall Electrostatic Separator. IEEE Transactions on Industry Applications, 2014, 50, 4228-4232.	4.9	8
34	Study of a Tribo-Aero-Electrostatic Separator for Mixtures of Micronized Insulating Materials. IEEE Transactions on Industry Applications, 2015, 51, 4166-4172.	4.9	8
35	On the attraction force applied on metal pieces in a traveling wave conveyor. Journal of Electrostatics, 2018, 96, 64-68.	1.9	8
36	Factors That Affect Tribocharging of Polyethylene (PE) Granules After Exposure to a Dielectric Barrier Discharge (DBD). IEEE Transactions on Industry Applications, 2019, 55, 812-816.	4.9	8

#	Article	IF	Citations
37	Fuzzy Control of an Electrostatic Separation Process. IEEE Transactions on Industry Applications, 2008, 44, 9-14.	4.9	7
38	Statistical Control of Electrostatic Separation Processes. IEEE Industry Applications Magazine, 2010, 16, 22-27.	0.4	7
39	Robustness testing of a free-fall triboelectric separation process for plastic waste recovery. International Journal of Sustainable Engineering, 2014, 7, 284-292.	3.5	7
40	Experimental analysis of the attraction force applied on metal particles using a double-side electrical curtain. Journal of Electrostatics, 2020, 105, 103448.	1.9	7
41	Experimental Modeling of a New Triboelectrostatic Separation Process for Micronized Plastics. IEEE Transactions on Industry Applications, 2015, 51, 4145-4150.	4.9	6
42	Ozonation of wastewater in Algeria by dielectric barrier discharge. Desalination and Water Treatment, 2016, 57, 1824-1835.	1.0	6
43	Multivariate Statistical Process Control of Electrostatic Separation Processes. IEEE Transactions on Industry Applications, 2009, 45, 1079-1085.	4.9	5
44	Application of Genetic Algorithms to the Optimization of a Roll-Type Electrostatic Separation Process. IEEE Transactions on Industry Applications, 2011, 47, 2218-2223.	4.9	5
45	Improvement of the Industrial Pilot of a Tribo-Aero-Electrostatic Separator for Binary Mixtures of Granular Insulating Materials. IEEE Transactions on Industry Applications, 2015, 51, 3479-3484.	4.9	5
46	Tribo-aero-electrostatic separation of micronized mixtures of insulating materials using â€œback-and-forthâ€•moving vertical electrodes. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 669-704.	2.9	5
47	Experimental and numerical analysis of a new tribo-electrostatic separator with coaxial cylindrical electrodes for plastic binary granular mixtures. Journal of Electrostatics, 2020, 108, 103523.	1.9	5
48	Experimental analysis of a new attraction force applied on metal particles. Particulate Science and Technology, 2020, 38, 505-510.	2.1	4
49	Electrostatic separation of particles used as complement to mechanical recycling plant of industrial waste. International Journal of Environmental Studies, 2022, 79, 61-71.	1.6	4
50	Experimental Investigation of a New Tribo-Aeroelectrostatic Separation Process for Micronized Plastics From WEEE. IEEE Transactions on Industry Applications, 2017, 53, 4950-4956.	4.9	3
51	Corona-Charged Insulating Belt Electrode Conveyor-Type Electrostatic Separator for Granular Plastic Wastes. IEEE Transactions on Industry Applications, 2020, 56, 6997-7004.	4.9	3
52	Modeling and Optimization of a Roll-Type Electrostatic Separation Process Using Artificial Neural Networks. IEEE Transactions on Industry Applications, 2013, 49, 1773-1780.	4.9	2
53	Numerical simulation of a tribo-aero-electrostatic separation of a ternary plastic granular mixture. Journal of Electrostatics, 2017, 88, 2-9.	1.9	2
54	Experimental analysis of a novel ozone generator configuration for use in water treatment applications. International Journal of Environmental Studies, 2019, 76, 338-350.	1.6	2

#	Article	IF	Citations
55	Dielectric Barrier Discharge Treatment of Granular Plastic Mixtures in View of Their Triboelectrostatic Separation. IEEE Transactions on Industry Applications, 2020, 56, 693-703.	4.9	2
56	Experimental analysis of a corona-charged baghouse filter. International Journal of Environmental Studies, 2020, 77, 739-748.	1.6	2
57	Triboelectric Charging of Granular Polymers Previously Exposed to Dielectric Barrier Discharges in Atmospheric Air. IEEE Transactions on Industry Applications, 2020, 56, 3061-3067.	4.9	2
58	Experimental investigation of a tribo-electrostatic separation device using linear moving electrodes. Particulate Science and Technology, 2021, 39, 657-662.	2.1	2
59	Experimental analysis of micronized plastic particle movement on electrodynamic screens. International Journal of Environmental Studies, 2022, 79, 72-87.	1.6	2
60	Numerical and Experimental Analysis of the Electrostatic Separation of a Metal/Polymer Mixture Based on Electro-Adhesive Force. IEEE Transactions on Industry Applications, 2022, 58, 760-766.	4.9	2
61	Experimental analysis of a new separation technique of metal/plastic particles using a double-side electrostatic actuator. Journal of Electrostatics, 2022, 118, 103734.	1.9	2
62	Insulating conveyor-belt-type electrostatic separator for triboelectrically-charged granular plastic wastes. , 2019, , .		1
63	Effect of Dielectric Barrier Discharge Exposure on the Triboelectric Charging of Granular Plastics. , 2019, , .		1
64	Experimental Analysis of a Cylindrical Ozone Generator with a Partitioned High-voltage Electrode. Ozone: Science and Engineering, 2021, 43, 339-350.	2.5	1
65	Electrostatic charge decay and filtration performance of nonwoven filters in the vicinity of grounded metal grids. Journal of Electrostatics, 2021, 110, 103554.	1.9	1
66	Mutual inductance of two coaxial rectangular PCB coils incorporating magnetic layer. Journal of Electrical Engineering, 2021, 72, 287-296.	0.7	1
67	Robust Design and Capability Evaluation of a Tribo-Aerodynamic Charging Process for Fine Particles. IEEE Transactions on Industry Applications, 2011, 47, 1086-1092.	4.9	0
68	Determination and analysis of the electrical components of a PEF treated equivalent circuit of potato tissue. International Journal of Environmental Studies, 2017, 74, 262-274.	1.6	0
69	Particle distribution analysis along the collection electrode of a â€˜wire-to-cylinderâ€™ electrostatic precipitator. International Journal of Environmental Studies, 2019, 76, 295-305.	1.6	0
70	Development of a compact power supply for dielectrophoretic applications. Australian Journal of Electrical and Electronics Engineering, 2021, 18, 172-180.	1.2	0
71	Experimental and numerical analysis of a tribo-electrostatic separation process of micronized plastic particles using rotating disk electrodes. International Journal of Environmental Studies, 0, , 1-13.	1.6	0