

Shigeki Koyanaka

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

492
citations

687363

13
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713466

21
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38
all docs

38
docs citations

38
times ranked

332
citing authors

#	ARTICLE	IF	CITATIONS
1	Ignitability characteristics of aluminium and magnesium dusts that are generated during the shredding of post-consumer wastes. <i>Journal of Loss Prevention in the Process Industries</i> , 2007, 20, 322-329.	3.3	74
2	Automatic sorting of lightweight metal scrap by sensing apparent density and three-dimensional shape. <i>Resources, Conservation and Recycling</i> , 2010, 54, 571-578.	10.8	36
3	Recovering copper from electric cable wastes using a particle shape separation technique. <i>Advanced Powder Technology</i> , 1997, 8, 103-111.	4.1	31
4	Incorporation of neural network analysis into a technique for automatically sorting lightweight metal scrap generated by ELV shredder facilities. <i>Resources, Conservation and Recycling</i> , 2011, 55, 515-523.	10.8	31
5	Effect of impact velocity control on selective grinding of waste printed circuit boards. <i>Advanced Powder Technology</i> , 2006, 17, 113-126.	4.1	30
6	Statistical effect of sampling particle number on mineral liberation assessment. <i>Minerals Engineering</i> , 2016, 98, 204-212.	4.3	27
7	Experimental analysis of mineral liberation and stereological bias based on X-ray computed tomography and artificial binary particles. <i>Advanced Powder Technology</i> , 2018, 29, 462-470.	4.1	25
8	Particle shape of copper milled by swing-hammer-type impact mill. <i>Powder Technology</i> , 1997, 90, 135-140.	4.2	21
9	Constructing an automatic object-recognition algorithm using labeling information for efficient recycling of WEEE. <i>Waste Management</i> , 2019, 88, 337-346.	7.4	18
10	Effect of Particle Shape on the Stereological Bias of the Degree of Liberation of Biphase Particle Systems. <i>Materials Transactions</i> , 2017, 58, 280-286.	1.2	17
11	2D-3D conversion method for assessment of multiple characteristics of particle shape and size. <i>Powder Technology</i> , 2019, 343, 287-295.	4.2	16
12	A general quantification method for addressing stereological bias in mineral liberation assessment in terms of volume fraction and size of mineral phase. <i>Minerals Engineering</i> , 2018, 119, 156-165.	4.3	15
13	Stereological bias for spherical particles with various particle compositions. <i>Advanced Powder Technology</i> , 2016, 27, 1828-1838.	4.1	14
14	Stereological correction method based on sectional texture analysis for the liberation distribution of binary particle systems. <i>Advanced Powder Technology</i> , 2017, 28, 1391-1398.	4.1	13
15	Numerical simulations of stereological bias in particles with simple texture. <i>Powder Technology</i> , 2016, 298, 130-136.	4.2	10
16	Comparison of Seven Texture Analysis Indices for Their Applicability to Stereological Correction of Mineral Liberation Assessment in Binary Particle Systems. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 222.	2.0	10
17	The Recycling of Printed Wiring Board Scraps Using a Shape Sorting Technique. Recovering Copper Components by the Inclined Vibrating Method.. <i>Journal of the Society of Powder Technology, Japan</i> , 1995, 32, 385-391.	0.1	9
18	Characterization of Composite Particle Layer Formed with a High-speed Elliptical-rotor-type Mixer.. <i>Kagaku Kogaku Ronbunshu</i> , 1999, 25, 92-98.	0.3	9

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19	Three-dimensional analysis of the movement of various micron-sized particles under laser radiation pressure. Powder Technology, 2001, 116, 13-22.	4.2	9
20	Elemental analysis of lightweight metal scraps recovered by an automatic sorting technique combining a weight meter and a laser 3D shape-detection system. Resources, Conservation and Recycling, 2013, 75, 63-69.	10.8	9
21	Numerical analysis of the general characteristics of stereological bias in surface liberation assessment of ore particles. Advanced Powder Technology, 2018, 29, 3327-3335.	4.1	8
22	The effect of relative refractive index on monosized particle movement under laser radiation pressure. Advanced Powder Technology, 1999, 10, 205-221.	4.1	7
23	Recycling Technology for Lithium Ion Battery by Crushing and Classification, and Hydrometallurgical Process. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2014, 78, 250-257.	0.4	7
24	Impact Milling of Printed Circuit Board Waste for Resource Recycling and Evaluation of Liberation using Heavy Medium Separation [Translated]. KONA Powder and Particle Journal, 2000, 18, 194-199.	1.7	5
25	Verification of algorithm for automatic detection of electronic devices mounted on waste printed circuit boards. Journal of the Air and Waste Management Association, 2022, 72, 420-433.	1.9	5
26	Numerical simulation of the optical system and medium flow field suitable for particle separation using laser radiation pressure. Advanced Powder Technology, 2004, 15, 321-336.	4.1	4
27	Novel Numerical Simulation of the Stereological Bias of Binary Particles. Materials Transactions, 2016, 57, 438-444.	1.2	4
28	An automated assessment method for integrated circuit chip detachment from printed circuit board by multistep binarization and template matching of X-ray transmission images. Journal of Material Cycles and Waste Management, 2021, 23, 315-322.	3.0	4
29	Dynamic Adsorption Behavior for Removal of Cs from Polluted Solution. Kagaku Kogaku Ronbunshu, 2013, 39, 53-59.	0.3	4
30	Statistical reliability of the liberation distribution of ore particles with respect to number of particle measurements. Minerals Engineering, 2018, 126, 82-88.	4.3	3
31	Genetic Algorithm Based Automatic Input Parameter Calibration Method for the Discrete Element Modeling of Vibration Feeders. Materials Transactions, 2021, 62, 551-556.	1.2	3
32	A Study on the Kinetics of Impact Grinding of Copper and Phenol Resin in Printed Circuit Board Scrap. Resources Processing, 2011, 58, 22-27.	0.4	3
33	Elementary-Volume-Scale Simulations of Inertial Flow in Sphere Pack: Improvement of Di Felice Drag Model in High Porosity. Materials Transactions, 2020, 61, 1026-1031.	1.2	3
34	A New Criterion for Decision-Making in Mesh Simplification of 3D-Scanned Objects Used in Discrete-Element Modelling. Materials Transactions, 2020, 61, 1158-1163.	1.2	3
35	Effect of laser scanning on increase of throughput in particle separation using laser radiation pressure. Advanced Powder Technology, 2004, 15, 337-349.	4.1	2
36	Advanced Physical Separation Technology for Rare Metal Recycling. Resources Processing, 2011, 58, 95-100.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Automatic Sorting of Small Electronic Device Scraps to Facilitate Tantalum Recycling. Resources Processing, 2015, 62, 10-16.	0.4	1
38	Study on the Movement of Fine Particles in Near-field Region. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2004, 12, 48-52.	0.0	0