

# CITATION REPORT

List of articles citing

## Technical and Computational Aspects of the Measurement of Aggregate Shape by Digital Image Analysis

DOI: 10.1061/(asce)0887-3801(2004)18:1(10)  
Journal of Computing in Civil Engineering, 2004, 18, 10-18.

**Source:** <https://exaly.com/paper-pdf/36537256/citation-report.pdf>

**Version:** 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
67	A mathematical morphology approach to image based 3D particle shape analysis. <i>Machine Vision and Applications</i> , <b>2005</b> , 16, 282-288	2.8	27
66	3-D image analysis size and shape method applied to the evaluation of the Los Angeles test. <i>Engineering Geology</i> , <b>2005</b> , 77, 57-67	6	27
65	Microstructure Characterization for Modeling HMA Behaviour using Imaging Technology. <i>Road Materials and Pavement Design</i> , <b>2007</b> , 8, 207-238	2.6	45
64	Influence of volume/mass on grain-size curves and conversion of image-analysis size to sieve size. <i>Engineering Geology</i> , <b>2007</b> , 90, 124-137	6	37
63	Characterization of the packing of aggregate in concrete by a discrete element approach. <i>Materials Characterization</i> , <b>2009</b> , 60, 1082-1087	3.9	35
62	Effect of Aggregate Shape on Skid Resistance of Compacted Hot Mix Asphalt (HMA). <b>2010</b> ,		6
61	A new measuring method for maximal length, width and thickness dimensions of coarse aggregates. <i>Central South University</i> , <b>2011</b> , 18, 2150-2156		2
60	Comparison of 2D and 3D image-based aggregate morphological indices. <i>International Journal of Pavement Engineering</i> , <b>2011</b> , 12, 421-431	2.6	52
59	Determining bulk density of mine rock piles using ground penetrating radar frequency downshift. <b>2011</b> ,		3
58	Nonparametric Lens Debris Detection of Video Log Images Using Hysteresis Updating. <i>Journal of Computing in Civil Engineering</i> , <b>2012</b> , 26, 161-171	5	1
57	Particle Shape Estimates of Uniform Sands: Visual and Automated Methods Comparison. <i>Journal of Materials in Civil Engineering</i> , <b>2012</b> , 24, 194-206	3	28
56	Digital sieving-Matlab based 3-D image analysis. <i>Engineering Geology</i> , <b>2012</b> , 137-138, 74-84	6	29
55	Effect of production and sample preparation methods on aggregate shape parameters. <i>International Journal of Pavement Engineering</i> , <b>2013</b> , 14, 154-175	2.6	10
54	Comparison of Morphological Properties of Different Types of Coarse Aggregates. <b>2013</b> ,		5
53	Evaluation of image analysis methods used for quantification of particle angularity. <i>Sedimentology</i> , <b>2013</b> , 60, 1100-1110	3.3	34
52	Effect of Aggregate Shape on the Properties of Asphaltic Concrete AC14. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2014</b> , 71,	1.2	3
51	Digital Image Technology Based Simulation for Internal Components and Mechanical Behavior of Asphalt Concrete. <i>Advanced Materials Research</i> , <b>2014</b> , 950, 63-68	0.5	

50	Geomechanical evaluation of Pliocene natural aggregates as pavement materials. <i>Arabian Journal of Geosciences</i> , <b>2014</b> , 7, 1567-1576	1.8	2
49	Evaluation of particle simulation methods using aggregate angularity and slump tests. <i>Construction and Building Materials</i> , <b>2014</b> , 66, 549-566	6.7	5
48	Geological evolution of Nile Valley, west Sohag, Upper Egypt: a geotechnical perception. <i>Arabian Journal of Geosciences</i> , <b>2015</b> , 8, 11049-11072	1.8	9
47	Application of image processing and different types of imaging devices for three-dimensional imaging of coal grains. <i>Engineering Geology</i> , <b>2015</b> , 196, 286-292	6	6
46	Automated determination of poplar chip size distribution based on combined image and multivariate analyses. <i>Biomass and Bioenergy</i> , <b>2015</b> , 73, 1-10	5.3	23
45	Three-dimensional heterogeneous fracture simulation of asphalt mixture under uniaxial tension with cohesive crack model. <i>Construction and Building Materials</i> , <b>2015</b> , 76, 103-117	6.7	44
44	Modeling and measurement of abraded particles. <i>Powder Technology</i> , <b>2015</b> , 271, 134-140	5.2	7
43	Study on Aggregate Size Distribution in Asphalt Mix Using Images Obtained by Different Imaging Techniques. <i>Transportation Research Procedia</i> , <b>2016</b> , 17, 340-348	2.4	4
42	An empirical method for estimating surface area of aggregates in hot mix asphalt. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2016</b> , 3, 127-136	3.9	21
41	Innovation of aggregate angularity characterization using gradient approach based upon the traditional and modified Sobel operation. <i>Construction and Building Materials</i> , <b>2016</b> , 120, 442-449	6.7	34
40	3D numerical modelling of solid particles with randomness in shape considering convexity and concavity. <i>Powder Technology</i> , <b>2016</b> , 301, 131-140	5.2	22
39	Particle size distribution modeling of milled coals by dynamic image analysis and mechanical sieving. <i>Fuel Processing Technology</i> , <b>2016</b> , 143, 100-109	7.2	29
38	Evaluation of morphological characteristics of fine aggregate in asphalt pavement. <i>Construction and Building Materials</i> , <b>2017</b> , 139, 1-8	6.7	33
37	Morphological characterization and mechanical analysis for coarse aggregate skeleton of asphalt mixture based on discrete-element modeling. <i>Construction and Building Materials</i> , <b>2017</b> , 154, 1048-1061	6.7	48
36	Use of digital image analysis combined with fractal theory to determine particle morphology and surface texture of quartz sands. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2017</b> , 9, 1131-1139	5.3	12
35	Evaluation of the polishing resistance characteristics of fine and coarse aggregate for asphalt pavement using Wehner/Schulze test. <i>Construction and Building Materials</i> , <b>2018</b> , 163, 742-750	6.7	20
34	Linking the Effect of Aggregate Interaction to the Compaction Theory for Asphalt Mixtures Using Image Processing. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2045	2.6	4
33	A Laboratory Investigation into the Effects of Coarse Aggregate Angularity on Performance of WMA. <i>Advances in Materials Science and Engineering</i> , <b>2018</b> , 2018, 1-11	1.5	1

32	Evaluation of Fine Aggregate Morphology by Image Method and Its Effect on Skid-Resistance of Micro-Surfacing. <i>Materials</i> , <b>2018</b> , 11,	3.5	40
31	Morphological characteristics of aggregates and their influence on the performance of asphalt mixture. <i>Construction and Building Materials</i> , <b>2018</b> , 186, 303-312	6.7	36
30	Size distribution analysis of aggregates using LiDAR scan data and an alternate algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 143, 136-143	4.6	7
29	Comparison of the different mathematical methods performed in determining the size distribution of aggregates using LiDAR point cloud data and suggested algorithm. <i>Earth Science Informatics</i> , <b>2019</b> , 12, 365-380	2.5	3
28	Evaluation of Polishing Behavior of Fine Aggregates Using an Accelerated Polishing Machine with Real Tires. <i>Journal of Transportation Engineering Part B: Pavements</i> , <b>2019</b> , 145, 04019015	1.4	8
27	Evaluation methods and indexes of morphological characteristics of coarse aggregates for road materials: A comprehensive review. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2019</b> , 6, 256-272	3.9	12
26	Interrelationship between uncompacted void content of aggregates and asphalt concrete properties. <i>Particulate Science and Technology</i> , <b>2019</b> , 37, 623-631	2	1
25	Analysis of human behavior statistics law based on WeChat Moment. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 540, 122854	3.3	1
24	Morphometry and size distribution of aggregates from a Typic Hapludult soil under natural secondary forest, implanted leguminous trees and degraded pasture in the Atlantic coast of Brazil. <i>Geoderma Regional</i> , <b>2020</b> , 23, e00350	2.7	0
23	. <i>IEEE Access</i> , <b>2020</b> , 8, 143241-143255	3.5	3
22	Investigation on the morphological and mineralogical properties of coarse aggregates under VSI crushing operation. <i>International Journal of Pavement Engineering</i> , <b>2020</b> , 1-14	2.6	13
21	Optimisation of aggregate gradation of ultra-high-performance concrete based on the modified compressible packing model. <i>Magazine of Concrete Research</i> , <b>2021</b> , 1-8	2	0
20	Mesoscale fracture analysis of recycled aggregate concrete based on digital image processing technique. <i>Structural Concrete</i> , <b>2021</b> , 22, E33	2.6	7
19	Characterization and evaluation of morphological features for aggregate in asphalt mixture: A review. <i>Construction and Building Materials</i> , <b>2021</b> , 273, 121989	6.7	9
18	A Rapid Gradation Detection System for Earth and Stone Materials Based on Digital Image. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-10	1.3	0
17	Quantitative analysis of shapes and specific surface area of blasted fragments using image analysis and three-dimensional laser scanning. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2021</b> , 141, 104710	6	1
16	Prediction method for void content of aggregate based on neural network model. <i>Particulate Science and Technology</i> , 1-10	2	0
15	Experimental Study on Manufactured Sand Shape Detection by Image Method. <i>Journal of Testing and Evaluation</i> , <b>2019</b> , 47, 20170533	1	2

14	ANÁLISE DE IMAGENS NA DETERMINAÇÃO DA FORMA E TEXTURA DE AREIAS. <i>Revista Brasileira De Ciencia Do Solo</i> , <b>2015</b> , 39, 94-99	1.5	2
13	Simulation of Aggregate Slump Test Using Equivalent Sphere Particle in DEM. <i>International Journal of Highway Engineering</i> , <b>2013</b> , 15, 21-29	0	2
12	CT Image Entropy Analysis Technique for the Determination of Damage to Indirect Tensile Test of Asphalt Mixtures. <i>Journal of Testing and Evaluation</i> , <b>2011</b> , 39, 103446	1	
11	Measurement of Aggregate Size and Shape Using Image Analysis. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 739-747	0.3	1
10	Geomaterials as construction aggregates: a state-of-the-art. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2021</b> , 80, 8831-8845	4	3
9	Effect of crushing mechanism on the shape properties of coarse aggregates. <i>Materials Today: Proceedings</i> , <b>2022</b> ,	1.4	0
8	Computer Vision Technology for Characterizing Particle Size and Shape of Aggregate Materials: A Review. <b>2021</b> ,		
7	High fidelity 3D mesoscale modeling of concrete with ultrahigh volume fraction of irregular shaped aggregate. <i>Composite Structures</i> , <b>2022</b> , 291, 115600	5.3	0
6	Research on the Intelligent Detection Technology of Multi-Objective Coarse Aggregates. <i>SSRN Electronic Journal</i> ,	1	
5	Skid resistance and the potential use of alternative materials for pavement wearing course: A review. <b>2022</b> ,		0
4	Review of Visualization Technique and Its Application of Road Aggregates Based on Morphological Features. <b>2022</b> , 12, 10571		2
3	Research on the intelligent detection technology of multi-objective coarse aggregates. <b>2023</b> , 363, 129273		0
2	Particle breakage in construction materials: A geotechnical perspective. <b>2023</b> , 381, 131308		0
1	Deep learning-based software and hardware framework for a noncontact inspection platform for aggregate grading. <b>2023</b> , 211, 112634		0