Francisco Cavas-MartÃ-nez

List of Publications by Year
in descending order

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56	405	840776 11	839539 18
papers	citations	h-index	g-index

60	60	60	359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Geometrical Custom Modeling of Human Cornea In Vivo and Its Use for the Diagnosis of Corneal Ectasia. PLoS ONE, 2014, 9, e110249.	2.5	43
2	A new approach to keratoconus detection based on corneal morphogeometric analysis. PLoS ONE, 2017, 12, e0184569.	2.5	31
3	Keratoconus Detection Based on a New Corneal Volumetric Analysis. Scientific Reports, 2017, 7, 15837.	3.3	26
4	Digital photography applied to irrigation management of Little Gem lettuce. Agricultural Water Management, 2015, 151, 148-157.	5.6	19
5	Social interaction learning strategies, motivation, first-yearÂstudentsâ€™ experiences and permanence in university studies. Educational Psychology, 2018, 38, 451-469.	2.7	19
6	Detection and Classification of Aircraft Fixation Elements during Manufacturing Processes Using a Convolutional Neural Network. Applied Sciences (Switzerland), 2020, 10, 6856.	2.5	18
7	3D Printed Personalized Corneal Models as a Tool for Improving Patientâ€™s Knowledge of an Asymmetric Disease. Symmetry, 2020, 12, 151.	2.2	18
8	Morphogeometric analysis for characterization of keratoconus considering the spatial localization and projection of apex and minimum corneal thickness point. Journal of Advanced Research, 2020, 24, 261-271.	9.5	17
9	Study of Morpho-Geometric Variables to Improve the Diagnosis in Keratoconus with Mild Visual Limitation. Symmetry, 2018, 10, 306.	2.2	15
10	EMKLAS: A New Automatic Scoring System for Early and Mild Keratoconus Detection. Translational Vision Science and Technology, 2020, 9, 30.	2.2	15
11	Subclinical keratoconus detection with threeâ€dimensional (3â€D) morphogeometric and volumetric analysis. Acta Ophthalmologica, 2020, 98, e933-e942.	1.1	14
12	A mobile application to calculate optimum drip irrigation laterals. Agricultural Water Management, 2015, 151, 13-18.	5.6	11
13	Three-Dimensional Morphogeometric and Volumetric Characterization of Cornea in Pediatric Patients With Early Keratoconus. American Journal of Ophthalmology, 2021, 222, 102-111.	3.3	11
14	An agent-based paradigm for detecting and acting on vehicles driving in the opposite direction on highways. Expert Systems With Applications, 2013, 40, 5113-5124.	7.6	10
15	Effects of pre-college variables and first-year engineering studentsâ€™ experiences on academic achievement and retention: a structural model. International Journal of Technology and Design Education, 2019, 29, 915-928.	2.6	10
16	Changes in the 3D Corneal Structure and Morphogeometric Properties in Keratoconus after Corneal Collagen Crosslinking. Diagnostics, 2020, 10, 397.	2.6	10
17	Corneal stromal thickness changes after myopic laser corneal refractive surgery. Journal of Cataract and Refractive Surgery, 2022, 48, 334-341.	1.5	10
18	Lente intraocular fÃ¡quica plegable acrÃ¼lica de apoyo angular para la correcciÃ³n de miopÃa: seguimiento de 5 aÃ±os. Archivos De La Sociedad Espanola De Oftalmologia, 2017, 92, 4-11.	0.2	9

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19	A Machine-Learning Model Based on Morphogeometric Parameters for RETICS Disease Classification and GUI Development. Applied Sciences (Switzerland), 2020, 10, 1874.	2.5	9
20	Study and characterization of morphogeometric parameters to assist diagnosis of keratoconus. BioMedical Engineering OnLine, 2018, 17, 161.	2.7	8
21	Assessment of Pattern and Shape Symmetry of Bilateral Normal Corneas by Scheimpflug Technology. Symmetry, 2018, 10, 453.	2.2	8
22	Predicting First-Year College Student Retention: Validation of the College Persistence Questionnaire in a Spanish Sample. Sustainability, 2019, 11, 4425.	3.2	8
23	Assessment of the Association between In Vivo Corneal Morphogeometrical Changes and Keratoconus Eyes with Severe Visual Limitation. Journal of Ophthalmology, 2019, 2019, 1-7.	1.3	7
24	Dynamic Moduli of Polybutylene Terephthalate Glass Fiber Reinforced in High-Temperature Environments. Materials, 2021, 14, 483.	2.9	7
25	Relationship between Corneal Morphogeometrical Properties and Biomechanical Parameters Derived from Dynamic Bidirectional Air Applanation Measurement Procedure in Keratoconus. Diagnostics, 2020, 10, 640.	2.6	6
26	Evidence of a Down Syndrome Keratopathy: A Three-Dimensional (3-D) Morphogeometric and Volumetric Analysis. Journal of Personalized Medicine, 2021, 11, 82.	2.5	6
27	MODELADO VIRTUAL DE UNA ESTRUCTURA BIOLOGICA: LA CORNEA HUMANA. Dyna (Spain), 2015, 90, 648-652.	0.2	6
28	An agent-based approach for the application of nature's forms to product conceptual design. PLoS ONE, 2018, 13, e0208930.	2.5	4
29	Myopic Surface Ablation in Asymmetrical Topographies: Refractive Results and Theoretical Corneal Elastic Response. American Journal of Ophthalmology, 2017, 177, 34-43.	3.3	3
30	A Study for Parametric Morphogeometric Operators to Assist the Detection of Keratoconus. Symmetry, 2017, 9, 302.	2.2	3
31	New Affordable Method for Measuring Angular Variations Caused by High Heels on the Sagittal Plane of Feet Joints during Gait. Applied Sciences (Switzerland), 2021, 11, 5605.	2.5	3
32	Feasibility Analysis of Bolted Joints with Composite Fibre-Reinforced Thermoplastics. Polymers, 2021, 13, 1904.	4.5	3
33	SIMULACIÃ“N VIRTUAL: UNA TECNOLOGÃA PARA EL IMPULSO DE LA INNOVACIÃ“N Y LA COMPETITIVIDAD EN LA INDUSTRIA. Dyna (Spain), 2019, 94, 118-119.	0.2	3
34	Reconstruction by Low Cost Software Based on Photogrammetry as a Reverse Engineering Process. Lecture Notes in Computer Science, 2018, , 145-154.	1.3	3
35	Iterative Methods for the Biomechanical Evaluation of Corneal Response. A Case Study in the Measurement Phase. Applied Sciences (Switzerland), 2021, 11, 10819.	2.5	3
36	Analysis of the Use of Genetic Algorithms in the Design of Models and Graphical Techniques for Early Detection, Diagnosis, and Characterization of Clinical Pathologies. Lecture Notes in Mechanical Engineering, 2022, , 201-207.	0.4	2

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37	Virtual Surgical Planning for Mandibular Reconstruction: Improving the Fibula Bone Flap. Lecture Notes in Computer Science, 2017, , 282-291.	1.3	1
38	Detection of Subclinical Keratoconus Using Biometric Parameters. Lecture Notes in Computer Science, 2019, , 490-501.	1.3	1
39	Efficacy of Morpho-Geometrical Analysis of the Corneal Surfaces in Keratoconus Disease According to Moderate Visual Limitation. Lecture Notes in Mechanical Engineering, 2020, , 263-272.	0.4	1
40	Initiation to Reverse Engineering by Using Activities Based on Photogrammetry as New Teaching Method in University Technical Studies. Lecture Notes in Computer Science, 2019, , 159-176.	1.3	1
41	Comparison of Corneal Morphologic Parameters and High Order Aberrations in Keratoconus and Normal Eyes. Lecture Notes in Computer Science, 2020, , 87-97.	1.3	1
42	Variable Complexity Corneal Surfaces Characterization by Modal Geometrical Reconstruction Methods: Comparative Study. Lecture Notes in Mechanical Engineering, 2022, , 237-247.	0.4	1
43	Optical Impact of Corneal Clearance in Healthy Eyes Fitted with Scleral Contact Lenses: A Pilot Study. Journal of Clinical Medicine, 2022, 11, 3424.	2.4	1
44	Geometric Modelling of the Human Cornea: A New Approach for the Study of Corneal Ectatic Disease. A Pilot Investigation. Lecture Notes in Computer Science, 2017, , 271-281.	1.3	0
45	Early Keratoconus Detection Enhanced by Modern Diagnostic Technology. Essentials in Ophthalmology, 2017, , 129-139.	0.1	0
46	Geometrical Analysis of Corneal Topography. Essentials in Ophthalmology, 2017, , 103-128.	0.1	0
47	Diagnostic Approach of Corneal Topography Maps. Essentials in Ophthalmology, 2017, , 87-102.	0.1	0
48	Analysis of the Accuracy of Reconstruction of a Human Cornea by Two Geometric Modelling Techniques: A Comparative Study. Lecture Notes in Mechanical Engineering, 2021, , 255-260.	0.4	0
49	Keratoconus Diagnosis by Patient-Specific 3D Modelling and Geometric Parameters Analysis. Lecture Notes in Computer Science, 2017, , 176-187.	1.3	0
50	Nature Inspired Redesign of the Visual Appearance of an Industrial Product. Lecture Notes in Mechanical Engineering, 2020, , 47-58.	0.4	0
51	Experimental Determination of Corneal Elastic Constants and Their Use in Biomechanical Modeling. Applied Sciences (Switzerland), 2021, 11, 11292.	2.5	0
52	TEST ANXIETY ON ENGINEERING STUDIES: ASSOCIATIONS WITH STUDENTSâ€™ SOCIO-PERSONAL, COGNITIVE-MOTIVATIONAL AND EMOTIONAL VARIABLES. INTED Proceedings, 2022, , .	0.0	0
53	MITIGATING THE EFFECT OF EDUCATIONAL SHORTCOMINGS IN THE FIELD OF GRAPHICAL EXPRESSION BY A SELF-GUIDED COURSE: A PILOT EXPERIENCE IN HIGHER ENGINEERING STUDIES. INTED Proceedings, 2022, , .	0.0	0
54	Fixing Elements Localization in Aircraft Large Structures Using Machine Learning Techniques. Lecture Notes in Mechanical Engineering, 2022, , 139-146.	0.4	0

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55	A New Method for Measuring Angular Variations Caused by High Heels in Sagittal Plane of Tibiotalar and Metatarsophalangeal Joints During Gait. Lecture Notes in Mechanical Engineering, 2022, , 208-216.	0.4	0
56	Geometrical optimization of thermoforming continuous fibers reinforced thermoplastics with Finite Element Models: A case study. Composites Part B: Engineering, 2022, , 109950.	12.0	0