

VIRGIL-FLORIN DUMA

List of Publications

<http://www.researcherid.com/rid/B-3031-2010>

h-index = 25 (*ISI Web of Science*)

<https://www.researchgate.net/profile/Virgil-Florin-Duma>

Papers in Journals indexed in ISI Web of Science (Σ ISI Impact Factor (IF) = 146.687)¹

69. M.C. Langă, D.F. Nica*, V.-F. Duma*, R.E. Heredeia, C. Sinescu, Dentigerous Cysts in Children: Clinical, Radiological, and Healing Aspects, *Medicina-Lithuania* **60**(7), 1133 (2024); ISSN 1648-9144; <https://doi.org/10.3390/medicina60071133>; **IF 2.4**; **Q1**
68. I.-R. Munteanu, R.-E. Luca*, E. Hogeia, R.-A. Erdelyi, **V.-F. Duma***, L. Marsavina, A.-L. Globasu, G.-D. Constantin, D.C. Todea, Microbiological and Imaging-Based Evaluations of Photodynamic Therapy Combined with Er:YAG Laser Therapy in the In Vitro Decontamination of Titanium and Zirconia Surfaces, *Microorganisms* **12**(7), 1345 (2024); eISSN 2076-2607; <https://doi.org/10.3390/microorganisms12071345>; **IF 4.1/2023**; **Q2**
67. L. Popescu, E.L. Crăciunescu*, A.C. Novac, M.L. Negruțiu, **V.-F. Duma**, A Tudor, A. Mostovei, D. Jumanca, C. Sinescu, Nutritional profiling and sensory evaluation of novel hot chocolate recipes: a comparative study with a commercial brand, *Romanian J. of Oral Rehabilitation* **16**(2), 197-203 (2024); ISSN 2066-7000; **IF 0.6/2023**; DOI: 10.6261/RJOR.2024.2.16.19; **Q4**
66. A.C. Novac, A. Tudor*, D.M. Pop, C.S. Neagu, E.L. Craciunescu, M. Rominu, M.L. Negrutiu, **V.-F. Duma***, C. Sinescu, Conventional dental impressions vs. impressions reinforced with rigid mouthguards, *Polymers* **16**(7), 994 (2024); ISSN 2073-4360; <https://doi.org/10.3390/polym16070994>; **IF 4.7/2023**; WOS:001201615100001; **Q1**
65. A.C. Novac, D.M. Pop*, A. Tănase, C. Zaharia, E.L. Crăciunescu, M. Romînu, M.L. Negruțiu, **V.-F. Duma**, C. Sinescu, The advantages of the implementation of digital flow in the working time management of dental prostheses restorations, *Romanian J. of Oral Rehabilitation* **15**(4), 75-81 (2023); ISSN 2066-7000; **IF 0.6**; <http://rjor.ro/2023/12pdf>; **Q4**
64. A.C. Novac, V. Filip, D. Negrut, I. Moldovan, D.M. Pop*, A. Tănase, C. Zaharia, E.L. Crăciunescu, M.L. Negruțiu, M. Romînu, **V.-F. Duma**, C. Sinescu, Time assessment in classical vs digital impressions, *Romanian J. of Oral Rehabilitation* **15**(4), 494-500 (2023); ISSN 2066-7000; <http://rjor.ro/2023/12/1pdf>; **IF 0.6**; **Q4**
63. A.-C. Măroiu[#], A. Jivănescu*, D.-A. Șerban, R.-M. Negru[#], **V.-F. Duma***, C. Sinescu, M. Romînu, The influence of a novel, crenelated design of CAD-CAM ceramic veneers on the debonding strength, *Materials* **16**(10), 3694 (2023); EISSN 1996-1944; <https://doi.org/10.3390/ma16103694>; **IF 3.1**; **Q1**
62. M. Mostovei*, O. Solomon, N. Chele, C. Sinescu, **V.-F. Duma***, A. Mostovei, Electromyographic evaluation of muscle activity in patients rehabilitated with full arch fixed implant-supported prostheses, *Medicina-Lithuania* **59**(2), 299 (2023); ISSN 1648-9144; <https://doi.org/10.3390/medicina59020299>; **IF 2.4**; **Q1**
61. A.-L. Dimb, **V.-F. Duma***, Symmetries of Scan Patterns of Laser Scanners with Rotational Risley Prisms, *Symmetry-Basel* **15**(2), 336 (2023); ISSN 2073-8994; <https://doi.org/10.3390/sym15020336>; **IF 2.2**; **Q2**
60. A. Cioabla, **V.-F. Duma***, C. Mnerie, R.-A. Erdelyi, G.M. Dobre, A. Bradu, A. Podoleanu, Effect of an Anaerobic Fermentation Process on 3D-printed PLA Materials of a Biogas-generating Reactor², *Materials* **15**(23), 8571 (2022); EISSN 1996-1944; <https://doi.org/10.3390/ma15238571>; **IF 3.4**; **Q2**
59. E.T. Stoica, C. Marcauteanu*, A. Tudor, **V.-F. Duma***, E.C. Amaricai, R. Onofrei, O. Suciuc, M.-L. Negruțiu, C. Sinescu, Influence of the Text Neck Posture on the Static Dental Occlusion, *Medicina-Lithuania* **58**(9), 1303 (2022); ISSN 1648-9144; <https://doi.org/10.3390/medicina58091303>; **IF 2.6**; **Q3**
58. A.G. Gabor, **V.-F. Duma***, M.M.C. Fabricky, L. Marsavina, A. Tudor, C. Vancea, P. Negrea, C. Sinescu*, Ceramic Scaffolds for Bone Augmentation: Design and Characterization with SEM and Confocal Microscopy, *Materials* **15**(14), 4899 (2022); EISSN 1996-1944; <https://doi.org/10.3390/ma15144899>; **IF 3.4**; **Q2**
57. **V.-F. Duma***, M.-A. Duma, Optomechanical Analysis and Design of Polygon Mirror-Based Laser Scanners, *Applied Sciences* **12**(11), 5592 (2022); ISSN 2076-3417; **IF 2.7**; <https://doi.org/10.3390/app12115592>; **Q2**

¹ The corresponding author of the papers with multiple authors is indicated by the sign *

² [Materials](#) | Editor's Choice Articles in 2022 in the Section "Optics and Photonics" (mdpi.com)

56. L. Orel, O.-A. Velea-Barta, C. Sinescu, **V.-F. Duma**, L.-M. Nica*, R.M. Horhat, R.D. Chirila, A. Tudor, D.D. Vulcanescu, M.L. Negrutiu, Comparative Assessment of the Shaping Ability of Reciprocal Blue, WaveOne Gold, and ProTaper Gold in Simulated Root Canals, *Materials* **15**(9), 3028 (2022); EISSN 1996-1944; <https://doi.org/10.3390/ma15093028>; **IF 3.4**; **Q1**
55. C. Serban, D. Lungeanu*, S.-D. Bota, C.C. Cotca, M.L. Negrutiu, **V.-F. Duma**, C. Sinescu, E.L. Craciunescu, Emerging Technologies for Dentin Caries Detection—A Systematic Review and Meta-Analysis. *J. of Clinical Medicine* **11**(3), 674 (2022). EISSN 2077-0383; <https://doi.org/10.3390/jcm11030674>; **IF 3.9**; **Q2**
54. M.-M. Togoe, E.-L. Craciunescu*, F.-I. Topala, C. Sinescu, L.M. Nica, C. Ionita, **V.-F. Duma**, M. Rominu, A. Gh. Podoleanu, M.-L. Negrutiu, Endodontic fillings evaluated using en face OCT, microCT and SEM, *Romanian J. of Morphology and Embryology* **62**(3), 793-780 (2021), ISSN 1220-0522, **IF 0.833**; [DOI: 10.47162/RJME.62.3.17](https://doi.org/10.47162/RJME.62.3.17); **Q4**
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51. L. Orel, O.-A. Velea-Barta*, L.-M. Nica*, A.-S. Boscornea-Puscu, R.M. Horhat, R.-M. Talpos-Niculescu, C. Sinescu, **V.-F. Duma**, D.-D. Vulcanescu, F. Topala, M.-L. Negruțiu, Evaluation of the Shaping Ability of Three Thermally Treated Nickel–Titanium Endodontic Instruments on Standardized 3D-printed Dental Replicas Using Cone-Beam Computed Tomography, *Medicina-Lithuania* **57**(9), 901 (2021); ISSN 1648-9144; <https://doi.org/10.3390/medicina57090901>; **IF 2.948**; **Q3**
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47. R.-A. Erdelyi, **V.-F. Duma***, C. Sinescu, G. Dobre, A. Bradu, A. Podoleanu, Optimization of X-ray Investigations in Dentistry using Optical Coherence Tomography⁴, *Sensors* **21**(13), 4554 (2021); ISSN 1424-8220; <https://doi.org/10.3390/s21134554>; **IF 3.874**; **Q2**
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45. D.F. Nica, M. Riviș*, C.I. Roi, C.D. Todea, **V.-F. Duma***, C. Sinescu, Complementarity of Photobiomodulation, Surgical Treatment, and Antibiotherapy for Medication-related Osteonecrosis of the Jaws (MRONJ), *Medicina-Lithuania* **57**(2), 145 (2021); EISSN 1010-660X; <https://doi.org/10.3390/medicina57020145>; **IF 2.948**; **Q2**
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43. N. Pop, R. Beiu, P. Svera, C. Mnerie, Gh. Hutiu, **V.-F. Duma***, Thermal degradation of photovoltaic panels: evaluations using a range of testing methods, *J. of Environmental Protection and Ecology (JEPE)* **21**(6), 2083-2092 (2020); ISSN 1311-5065; **IF 0.577**; **Q4**

³ Among Top 20 Cited Papers in 2021 in the Section *Optics and Lasers in Appl. Sci.* <https://www.mdpi.com/journal/applsci/announcements/4342>

⁴ C:\Users\dumav\Downloads\Publication_Certificate_MDPI_sensors.pdf

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41. R.E. Luca, A. Giuliani*, A. Mănescu, R. Heredeia, B. Hoinoiu, G.D. Constantin, **V.-F. Duma**, C.D. Todea, Osteogenic Potential of Bovine Bone Graft in Combination with Laser Photobiomodulation: An Ex Vivo Demonstrative Study in Wistar Rats by Cross-Linked Studies Based on Synchrotron Microtomography and Histology, *Int. J. of Molecular Sciences* **21**(3), 778 (2020); eISSN 1422-0067; pISSN 1661-6596; <https://doi.org/10.3390/ijms21030778>; **IF 5.923**; **Q1**
40. **V.-F. Duma**, Optical attenuators with Risley prisms and disk choppers, *Proceedings of the Romanian Academy Series A* **20**(2), 141-150 (2019); ISSN 1454-9069; <https://acad.ro/proc/doc2019-2/05-Duma.pdf>; **IF 1.294**; **Q3**
39. R. Luca, C.D. Todea*, **V.-F. Duma***, A. Bradu, A. Podoleanu, Quantitative assessment of rat bone regeneration using complex master–slave optical coherence tomography, *Quantitative Imaging in Medicine and Surgery* **9**(5), 782-798 (2019); ISSN 2223-4292; <http://dx.doi.org/10.21037/qims.2019.05.03>; **IF 3.226**; **Q2**
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27. R. Nagib, C. Szuhaneck, B. Moldoveanu, M.L. Negrutiu, **V.-F. Duma**, C. Sinescu, S. Brad, Dimensional study of impacted maxillary canine replicas printed 3D by using two types of resin materials, *Materiale Plastice* **55**(2), 190-191 (2018); ISSN 0025-5289; **IF 1.393**; **Q4**

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25. **V.-F. Duma***, A. Schitea, Laser scanners with rotational Risley prisms: Exact scan patterns, *Proc. of the Romanian Academy Series A* **19**(1), 53-60 (2018); ISSN 1454-9069; **IF 1.402**; <http://www.acad.ro/sectii2002/proceedings/doc2018-1/08.pdf>;⁵ **Q3**
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17. E. Craciunescu, C. Sinescu*, M.L. Negrutiu, D.M. Pop, H.-C. Lauer, M. Rominu, Gh. Hutiu, M. Bunoiu, **V.-F. Duma***, I. Antoniac, Shear Bond Strength Tests of Zirconia Veneering Ceramics after Chipping Repair, *J. of Adhesion Science and Technology* **30**(6), 666-676 (2016); ISSN 0169-4243; <http://dx.doi.org/10.1080/01694243.2015.1117304>; **IF 1.073**; **Q4**
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- M.-A. Duma, **V.-F. Duma***, Experimental study of laser scanning heads with refractive polygons, *SPIE Optical Systems Design*, Strasbourg (France), Apr. 7-11, **2024**; (Poster);
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