

Simona Cavalu

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

2,048
citations

236612

25
h-index

344852

36
g-index

109
all docs

109
docs citations

109
times ranked

976
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome centric engineering using ZFNs, TALENs and CRISPR-Cas9 systems for trait improvement and disease control in Animals. <i>Veterinary Research Communications</i> , 2023, 47, 1-16.	0.6	14
2	Synergic effect of selenium nanoparticles and lactic acid bacteria in reduction cadmium toxicity. <i>Journal of Molecular Structure</i> , 2022, 1247, 131325.	1.8	22
3	Applications of Phyto-Nanotechnology for the Treatment of Neurodegenerative Disorders. <i>Materials</i> , 2022, 15, 804.	1.3	85
4	The dynamic interplay between AMPK/NF- κ B signaling and NLRP3 is a new therapeutic target in inflammation: Emerging role of dapagliflozin in overcoming lipopolysaccharide-mediated lung injury. <i>Biomedicine and Pharmacotherapy</i> , 2022, 147, 112628.	2.5	36
5	Exploring Pharmacological Mechanisms of Essential Oils on the Central Nervous System. <i>Plants</i> , 2022, 11, 21.	1.6	37
6	Novel Green Approaches for the Preparation of Gold Nanoparticles and Their Promising Potential in Oncology. <i>Processes</i> , 2022, 10, 426.	1.3	16
7	Evolution of Diagnostic Methods for Helicobacter pylori Infections: From Traditional Tests to High Technology, Advanced Sensitivity and Discrimination Tools. <i>Diagnostics</i> , 2022, 12, 508.	1.3	27
8	Exploring the Journey of Zinc Oxide Nanoparticles (ZnO-NPs) toward Biomedical Applications. <i>Materials</i> , 2022, 15, 2160.	1.3	122
9	The Multifunctional Role of Herbal Products in the Management of Diabetes and Obesity: A Comprehensive Review. <i>Molecules</i> , 2022, 27, 1713.	1.7	79
10	Electrospun Nanofibers Revisited: An Update on the Emerging Applications in Nanomedicine. <i>Materials</i> , 2022, 15, 1934.	1.3	18
11	Sarcopenia, a major clinical problem in old age, potential causes, clinical consequences and therapeutic possibilities. <i>Balearic and PRM Research Journal</i> , 2022, , 492.	0.1	5
12	Natural Small Molecules in Breast Cancer Treatment: Understandings from a Therapeutic Viewpoint. <i>Molecules</i> , 2022, 27, 2165.	1.7	47
13	Nifuroxazide-loaded cubosomes exhibit an advancement in pulmonary delivery and attenuate bleomycin-induced lung fibrosis by regulating the STAT3 and NF- κ B signaling: A new challenge for unmet therapeutic needs. <i>Biomedicine and Pharmacotherapy</i> , 2022, 148, 112731.	2.5	11
14	Therapeutic efficacy of <i>Clompanus pubescens</i> leaves fractions via downregulation of neuronal cholinesterases/Na ⁺ -K ⁺ -ATPase/IL-1 β , and improving the neurocognitive and antioxidants status of streptozotocin-induced diabetic rats. <i>Biomedicine and Pharmacotherapy</i> , 2022, 148, 112730.	2.5	18
15	Coomassie brilliant blue G-250 dye attenuates bleomycin-induced lung fibrosis by regulating the NF- κ B and NLRP3 crosstalk: A novel approach for filling an unmet medical need. <i>Biomedicine and Pharmacotherapy</i> , 2022, 148, 112723.	2.5	13
16	Green Metallic Nanoparticles: Biosynthesis to Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 874742.	2.0	67
17	Ameliorative Effect of Oxytocin on FBN1 and PEPCK Gene Expression, and Behavioral Patterns in Rats' Obesity-Induced Diabetes. <i>Frontiers in Public Health</i> , 2022, 10, 777129.	1.3	6
18	Microbiome in cancer: Role in carcinogenesis and impact in therapeutic strategies. <i>Biomedicine and Pharmacotherapy</i> , 2022, 149, 112898.	2.5	41

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19	Assessing the Role of Lipopolysaccharide (LPS) Receptor (CD14) in Septic Cardiomyopathy: The Value of Immunohistochemical Diagnostics. <i>Diagnostics</i> , 2022, 12, 781.	1.3	1
20	Combination of Vitamin C and Curcumin Safeguards Against Methotrexate-Induced Acute Liver Injury in Mice by Synergistic Antioxidant Effects. <i>Frontiers in Medicine</i> , 2022, 9, 866343.	1.2	27
21	Enhanced Plasmon Based Ag and Au Nanosystems and Their Improved Biomedical Impacts. <i>Crystals</i> , 2022, 12, 589.	1.0	4
22	Bioactive Based Nanocarriers for the Treatment of Viral Infections and SARS-CoV-2. <i>Nanomaterials</i> , 2022, 12, 1530.	1.9	10
23	Scrutinizing the role of Genetically Modified Herbs (GMHs) in the Treatment of Various Diseases. <i>Recent Patents on Biotechnology</i> , 2022, 16, .	0.4	0
24	Supersaturation-Based Drug Delivery Systems: Strategy for Bioavailability Enhancement of Poorly Water-Soluble Drugs. <i>Molecules</i> , 2022, 27, 2969.	1.7	8
25	Advantages of Cubosomal Formulation for Gatifloxacin Delivery in the Treatment of Bacterial Keratitis: In Vitro and In Vivo Approach Using Clinical Isolate of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Materials</i> , 2022, 15, 3374.	1.3	4
26	An Overview of Antimicrobial Stewardship Optimization: The Use of Antibiotics in Humans and Animals to Prevent Resistance. <i>Antibiotics</i> , 2022, 11, 667.	1.5	31
27	Size-Dependent Antibacterial, Antidiabetic, and Toxicity of Silver Nanoparticles Synthesized Using Solvent Extraction of <i>Rosa indica</i> L. Petals. <i>Pharmaceuticals</i> , 2022, 15, 689.	1.7	5
28	A Prospective Viewpoint on Neurological Diseases and Their Biomarkers. <i>Molecules</i> , 2022, 27, 3516.	1.7	9
29	Nanotechnology in the Diagnostic and Therapy of Hepatocellular Carcinoma. <i>Materials</i> , 2022, 15, 3893.	1.3	9
30	Recent Advancements in Microneedle Technology for Multifaceted Biomedical Applications. <i>Pharmaceuticals</i> , 2022, 14, 1097.	2.0	43
31	Multidrug Resistance in Cancer Cells: Focus on a Possible Strategy Plan to Address Colon Carcinoma Cells. <i>Life</i> , 2022, 12, 811.	1.1	16
32	Pentoxifylline and berberine mitigate diclofenac-induced acute nephrotoxicity in male rats via modulation of inflammation and oxidative stress. <i>Biomedicine and Pharmacotherapy</i> , 2022, 152, 113225.	2.5	30
33	Multidrug Resistance of Cancer Cells and the Vital Role of P-Glycoprotein. <i>Life</i> , 2022, 12, 897.	1.1	31
34	Exploring the plant-derived bioactive substances as antidiabetic agent: An extensive review. <i>Biomedicine and Pharmacotherapy</i> , 2022, 152, 113217.	2.5	57
35	Combining the HSP90 inhibitor TAS-116 with metformin effectively degrades the NLRP3 and attenuates inflammasome activation in rats: A new management paradigm for ulcerative colitis. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113247.	2.5	9
36	Emerging Approach for the Application of <i>Hibiscus sabdariffa</i> Extract Ointment in the Superficial Burn Care. <i>Scientia Pharmaceutica</i> , 2022, 90, 41.	0.7	6

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37	An Overview of Diabetic Foot Ulcers and Associated Problems with Special Emphasis on Treatments with Antimicrobials. <i>Life</i> , 2022, 12, 1054.	1.1	25
38	Canagliflozin-loaded chitosan-hyaluronic acid microspheres modulate AMPK/NF- κ B/NLRP3 axis: A new paradigm in the rectal therapy of ulcerative colitis. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113409.	2.5	15
39	Electrochemical Methods for Evaluation of Antioxidant Properties of Propolis Extract Incorporated in Chitosan Nanoparticles. <i>Materiale Plastice</i> , 2021, 57, 96-108.	0.4	6
40	Nano-Scale Modifications of Amniotic Membrane Induced by UV and Antibiotic Treatment: Histological, AFM and FTIR Spectroscopy Evidence. <i>Materials</i> , 2021, 14, 863.	1.3	13
41	Preparation and Characterization of Two Different Liposomal Formulations with Bioactive Natural Extract for Multiple Applications. <i>Processes</i> , 2021, 9, 432.	1.3	34
42	Nano Selenium-Enriched Probiotics as Functional Food Products against Cadmium Liver Toxicity. <i>Materials</i> , 2021, 14, 2257.	1.3	24
43	Successful management of spontaneous bone regeneration after jaws cystectomy using PRGF approach; case series. <i>Romanian Journal of Morphology and Embryology</i> , 2021, 61, 833-840.	0.4	3
44	Functional Food Product Based on Nanoselenium-Enriched <i>Lactobacillus casei</i> against Cadmium Kidney Toxicity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4220.	1.3	10
45	Surface properties of collagen-functionalized aluminosilicate particles embedding iron and dysprosium designed for cancer therapy. <i>Journal of Molecular Structure</i> , 2021, 1236, 130341.	1.8	4
46	Perspectives on the Combined Effects of <i>Ocimum basilicum</i> and <i>Trifolium pratense</i> Extracts in Terms of Phytochemical Profile and Pharmacological Effects. <i>Plants</i> , 2021, 10, 1390.	1.6	41
47	Carbon Nanotubes for Improved Performances of Endodontic Sealer. <i>Materials</i> , 2021, 14, 4248.	1.3	5
48	Severe Cardiac and Metabolic Pathology Induced by Steroid Abuse in a Young Individual. <i>Diagnostics</i> , 2021, 11, 1313.	1.3	9
49	Improved cytocompatibility and antibacterial properties of zinc-substituted brushite bone cement based on β -tricalcium phosphate. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 99.	1.7	34
50	The prospective of liquid crystals in nano formulations for drug delivery systems. <i>Journal of Molecular Structure</i> , 2021, 1245, 131117.	1.8	10
51	Metal Nanoparticles and Carbon-Based Nanomaterials for Improved Performances of Electrochemical (Bio)Sensors with Biomedical Applications. <i>Materials</i> , 2021, 14, 6319.	1.3	60
52	Optimization of Hyaluronate-Based Liposomes to Augment the Oral Delivery and the Bioavailability of Berberine. <i>Materials</i> , 2021, 14, 5759.	1.3	14
53	Revisiting Therapeutic Strategies for <i>H. pylori</i> Treatment in the Context of Antibiotic Resistance: Focus on Alternative and Complementary Therapies. <i>Molecules</i> , 2021, 26, 6078.	1.7	26
54	Potentiality of Nanoenzymes for Cancer Treatment and Other Diseases: Current Status and Future Challenges. <i>Materials</i> , 2021, 14, 5965.	1.3	25

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55	Evaluation of Wound Healing Potential of Novel Hydrogel Based on Ocimum basilicum and Trifolium pratense Extracts. Processes, 2021, 9, 2096.	1.3	19
56	Bioactive Compounds and Nanodelivery Perspectives for Treatment of Cardiovascular Diseases. Applied Sciences (Switzerland), 2021, 11, 11031.	1.3	13
57	Sarcopenia of Iliopsoas and Abdominal Muscles and Coexistence with Osteoporosis - Case Presentation. Pharmacophore, 2021, 12, 61-66.	0.2	2
58	Evaluation of In Vitro Wound-Healing Potential, Antioxidant Capacity, and Antimicrobial Activity of Stellaria media (L.) Vill. Applied Sciences (Switzerland), 2021, 11, 11526.	1.3	24
59	Rapid Screening of Retrieved Knee Prosthesis Components by Confocal Raman Micro-Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 5343.	1.3	5
60	The Behavior of Two Types of Upper Removable Retainers – Our Clinical Experience. Children, 2020, 7, 295.	0.6	8
61	Nanoparticles and Nanostructured Surface Fabrication for Innovative Cranial and Maxillofacial Surgery. Materials, 2020, 13, 5391.	1.3	32
62	Novel Hybrid Composites Based on PVA/SeTiO ₂ Nanoparticles and Natural Hydroxyapatite for Orthopedic Applications: Correlations between Structural, Morphological and Biocompatibility Properties. Materials, 2020, 13, 2077.	1.3	32
63	Preparation, Physico-chemical Characterization and Photocatalytic Properties of Se Doped TiO ₂ Nanoparticles. Revista De Chimie (discontinued), 2020, 71, 22-27.	0.2	5
64	ENCAPSULATION OF STELLARIA MEDIA EXTRACT IN ALGINATE BEADS BY USING A NOVEL METHOD FOR CONTROLLED RELEASE. Natural Resources and Sustainable Development, 2020, 10, 200-209.	0.1	0
65	Growth, Photosynthetic Pigments, Phenolic, Glucosinolates Content and Antioxidant Capacity of Broccoli Sprouts in Response to Nanoselenium Particles Supply. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2019, 47, .	0.5	23
66	PRGF-Modified Collagen Membranes for Guided Bone Regeneration: Spectroscopic, Microscopic and Nano-Mechanical Investigations. Applied Sciences (Switzerland), 2019, 9, 1035.	1.3	23
67	Natural Polymeric Film Encapsulating Propolis Nano-Formulation for Cutaneous Wound Healing. Materiale Plastice, 2019, 56, 479-483.	0.4	6
68	Assessment of Antibiotic Influence on Structural Modifications of Amniotic Membrane by FTIR Spectroscopy. Materiale Plastice, 2019, 57, 191-198.	0.4	4
69	Novel Formulation Based on Chitosan-Arabic Gum Nanoparticles Entrapping Propolis Extract Production, physico-chemical and structural characterization. Revista De Chimie (discontinued), 2019, 69, 3756-3760.	0.2	31
70	The Glass Ionomer Cement Reinforced with Silver - Premise in Choosing the Teeth Proposed for Orthodontic Purpose Extraction. Revista De Chimie (discontinued), 2019, 70, 324-326.	0.2	1
71	Two case reports of vertical and horizontal augmentation with autogenous bone blocks; seven years follow-up. Romanian Journal of Morphology and Embryology, 2019, 60, 261-266.	0.4	0
72	A gold nanoparticles - Graphene based electrochemical sensor for sensitive determination of nitrazepam. Journal of Electroanalytical Chemistry, 2018, 830-831, 63-71.	1.9	34

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73	Surface modifications of the titanium mesh for cranioplasty using selenium nanoparticles coating. Journal of Adhesion Science and Technology, 2018, 32, 2509-2522.	1.4	29
74	Eco-friendly, Facile and Rapid Way for Synthesis of Selenium Nanoparticles Production, structural and morphological characterisation. Revista De Chimie (discontinued), 2018, 68, 2963-2966.	0.2	21
75	Green Biosynthesis Silver Nanoparticles Using Leaf Extract. Natural Resources and Sustainable Development, 2018, 8, 59-66.	0.1	0
76	Preparation, structural characterisation and release study of novel hybrid microspheres entrapping nanoselenium, produced by green synthesis. IET Nanobiotechnology, 2017, 11, 426-432.	1.9	28
77	Naturally Derived Matrix for Controlled Selenium Nanoparticles Delivery. Key Engineering Materials, 2016, 695, 284-288.	0.4	1
78	Bioactive Compounds Diffusion from Grapes to Wines under High Frequency Electromagnetic Field Treatments. Key Engineering Materials, 2016, 695, 289-294.	0.4	1
79	New Evidences of Key Factors Involved in "Silent Stones" Etiopathogenesis and Trace Elements: Microscopic, Spectroscopic, and Biochemical Approach. Biological Trace Element Research, 2015, 168, 311-320.	1.9	24
80	Histological evidence of novel ceramic implant: evaluation of tolerability in rabbit femur. Romanian Journal of Morphology and Embryology, 2015, 56, 1455-60.	0.4	1
81	Small Bone Defects Augmentation. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Veterinary Medicine, 2014, 71, .	0.1	0
82	Adherence Properties of Acrylic Bone Cement to Alumina Ceramics Designed for Clinical Applications. Acta Physica Polonica A, 2014, 125, 603-605.	0.2	0
83	Freeze-dried and spray-dried zinc-containing silica microparticles entrapping insulin. Journal of Biomaterials Applications, 2014, 28, 1190-1199.	1.2	9
84	Spark plasma sintered Al ₂ O ₃ -YSZ-TiO ₂ composites: Processing, characterization and in vivo evaluation. Materials Science and Engineering C, 2014, 40, 16-23.	3.8	30
85	Surface Modification of Alumina/ Zirconia Ceramics Upon Different Fluoride-Based Treatments. International Journal of Applied Ceramic Technology, 2014, 11, 402-411.	1.1	18
86	Microscopic and spectroscopic investigation of bioactive glasses for antibiotic controlled release. Journal of Molecular Structure, 2013, 1040, 47-52.	1.8	29
87	New Devices for Optimization of Renouretal Lithiasis Treatment Using ESWL. Key Engineering Materials, 2013, 583, 155-159.	0.4	0
88	Alternative Approaches Using Animal Model for Implant Biomaterials: Advantages and Disadvantages. Key Engineering Materials, 2013, 583, 101-106.	0.4	0
89	Surface functionalisation of sol-gel derived aluminosilicates in simulated body fluids. Solid State Ionics, 2009, 180, 764-769.	1.3	23
90	Rotational Correlation Times of 3-Carbamoyl-2,2,5,5-tetramethyl-3-pyrrolin-1-yloxy Spin Label with Respect to Heme and Nonheme Proteins. Biomacromolecules, 2003, 4, 1630-1635.	2.6	25

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91	EPR study of non-covalent spin labeled serum albumin and hemoglobin. Biophysical Chemistry, 2002, 99, 181-188.	1.5	26
92	Raman and surface-enhanced Raman spectroscopy of tempyo spin labelled ovalbumin. Journal of Molecular Structure, 2001, 565-566, 225-229.	1.8	22
93	Raman and surface enhanced Raman spectroscopy of 2,2,5,5-tetramethyl-3-pyrrolin-1-yloxy-3-carboxamide labeled proteins: Bovine serum albumin and cytochromec. Biopolymers, 2001, 62, 341-348.	1.2	35
94	Correlation between Structural Properties and <i><i>In Vivo</i></i>; Biocompatibility of Alumina/Zirconia Bioceramics. Key Engineering Materials, 0, 493-494, 1-6.	0.4	2
95	Improving the Bioactivity and Biocompatibility of Acrylic Cements by Collagen Coating. Key Engineering Materials, 0, 493-494, 391-396.	0.4	1
96	Grafting Materials for Major Sinus Lift. Key Engineering Materials, 0, 493-494, 609-614.	0.4	0
97	Autologous Bone vs. Allograft Bone in Ridge Augmentation. Key Engineering Materials, 0, 529-530, 270-274.	0.4	0
98	Titania <i><i>versus</i></i>; Ceria Alumina/Zirconia Composites: Structural Aspects and Biological Tolerance. Key Engineering Materials, 0, 529-530, 595-600.	0.4	0
99	Immediate Loading of Dental Implants - A Case Study. Key Engineering Materials, 0, 695, 31-34.	0.4	0
100	Zirconia Neck Implants vs Bone Augmentation. Key Engineering Materials, 0, 695, 35-40.	0.4	0
101	The Assessment of Ceramic Dental Materials during the Treatment of Severe Adult Cleft Palate: A Case Study. Key Engineering Materials, 0, 695, 46-49.	0.4	0
102	Acrylic Bone Cements: New Insight and Future Perspective. Key Engineering Materials, 0, 745, 39-49.	0.4	8
103	The Assessment of Acrylic Infantile Overdenture during the Treatment of Anodontia in Children: A Case Study. Key Engineering Materials, 0, 752, 41-45.	0.4	0
104	Changes in the Blood Viscosity in Patients With SARS-CoV-2 Infection. Frontiers in Medicine, 0, 9, .	1.2	11
105	Identification of Linomide Derivatives as Potential Anticancer Therapeutics using Molecular Docking Studies. Frontiers in Pharmacology, 0, 13, .	1.6	1
106	The Gut Microbiota (Microbiome) in Cardiovascular Disease and Its Therapeutic Regulation. Frontiers in Cellular and Infection Microbiology, 0, 12, .	1.8	65
107	Carbocisteine as a Modulator of Nrf2/HO-1 and NF<sup>̢</sup> Interplay in Rats: New Inspiration for the Revival of an Old Drug for Treating Ulcerative Colitis. Frontiers in Pharmacology, 0, 13, .	1.6	14
108	Fungal Mushrooms: A Natural Compound With Therapeutic Applications. Frontiers in Pharmacology, 0, 13, .	1.6	28

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109	Nanomedicines in the Management of Alzheimer's Disease: Current View and Future Prospects. Frontiers in Aging Neuroscience, 0, 14, .	1.7	12