Phong A Tran

List of Publications by Year
in descending order

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78 papers	2,739 citations	196777 29 h-index	214428 50 g-index
80 all docs	80 docs citations	80 times ranked	4851 citing authors

#	Article	IF	Citations
1	Poloxamer additive as luminal surface modification to modulate wettability and bioactivities of small-diameter polyurethane/polycaprolactone electrospun hollow tube for vascular prosthesis applications. Materials Today Communications, 2021, 26, 101771.	0.9	11
2	Blood clots and tissue regeneration of 3D printed dual scale porous polymeric scaffolds. Materials Letters, 2021, 285, 129184.	1.3	7
3	In Situ Coatings of Silver Nanoparticles for Biofilm Treatment in Implant-Retention Surgeries: Antimicrobial Activities in Monoculture and Coculture. ACS Applied Materials & Interfaces, 2021, 13, 41435-41444.	4.0	20
4	Wavelengthâ€Selective Softening of Hydrogel Networks. Advanced Materials, 2021, 33, e2102184.	11.1	39
5	The Efficacy of Silver-Based Electrospun Antimicrobial Dressing in Accelerating the Regeneration of Partial Thickness Burn Wounds Using a Porcine Model. Polymers, 2021, 13, 3116.	2.0	2
6	Polycrystalline diamond coating on 3D printed titanium scaffolds: Surface characterisation and foreign body response. Materials Science and Engineering C, 2021, 130, 112467.	3.8	7
7	Controlling Antibiotic Release from Polymethylmethacrylate Bone Cement. Biomedicines, 2021, 9, 26.	1.4	35
8	Fabrication of injectable bone substitute loading porous simvastatin-loaded poly(lactic-co-glycolic acid) microspheres. International Journal of Polymeric Materials and Polymeric Biomaterials, 2020, 69, 351-362.	1.8	1
9	The Use of 3D Printed Microporous-Strut Polycaprolactone Scaffolds for Targeted Local Delivery of Chemotherapeutic Agent for Breast Cancer Application. IFMBE Proceedings, 2020, , 153-157.	0.2	2
10	3D-Printed Diamondâ€“Titanium Composite: A Hybrid Material for Implant Engineering. ACS Applied Bio Materials, 2020, 3, 29-36.	2.3	24
11	Antibiotic resistance of S. aureus on a â€˜bifunctionalâ€™ surface: An in vitro coculture study. Materials Letters, 2020, 280, 128542.	1.3	5
12	A 3D-printed biomaterials-based platform to advance established therapy avenues against primary bone cancers. Acta Biomaterialia, 2020, 118, 69-82.	4.1	11
13	Nanomaterials for Treating Bacterial Biofilms on Implantable Medical Devices. Nanomaterials, 2020, 10, 2253.	1.9	32
14	Coatings on metallic implants for biomedical applications. , 2020, , 359-385.		2
15	Effects of polydopamine coatings on nucleation modes of surface mineralization from simulated body fluid. Scientific Reports, 2020, 10, 14982.	1.6	22
16	Layered Antimicrobial Selenium Nanoparticleâ€“Calcium Phosphate Coating on 3D Printed Scaffolds Enhanced Bone Formation in Critical Size Defects. ACS Applied Materials & Interfaces, 2020, 12, 55638-55648.	4.0	24
17	High Nanodiamond Content-PCL Composite for Tissue Engineering Scaffolds. Nanomaterials, 2020, 10, 948.	1.9	19
18	Porous 3D Printed Scaffolds For Guided Bone Regeneration In a Rat Calvarial Defect Model. Applied Materials Today, 2020, 20, 100706.	2.3	21

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19	Polydopamine coating of uncrosslinked chitosan as an acellular scaffold for full thickness skin grafts. Carbohydrate Polymers, 2020, 245, 116524.	5.1	20
20	Local Doxorubicin Delivery via 3Dâ€Printed Porous Scaffolds Reduces Systemic Cytotoxicity and Breast Cancer Recurrence in Mice. Advanced Therapeutics, 2020, 3, 2000056.	1.6	15
21	Microenvironment engineering of osteoblastic bone metastases reveals osteomimicry of patient-derived prostate cancer xenografts. Biomaterials, 2019, 220, 119402.	5.7	28
22	Selenium nanoparticles as anti-infective implant coatings for trauma orthopedics against methicillin-resistant Staphylococcus aureus and epidermidis: in vitro and in vivo assessment . International Journal of Nanomedicine, 2019, Volume 14, 4613-4624.	3.3	67
23	Biocompatible and Biodegradable Magnesium Oxide Nanoparticles with In Vitro Photostable Near-Infrared Emission: Short-Term Fluorescent Markers. Nanomaterials, 2019, 9, 1360.	1.9	25
24	Janus particles: recent advances in the biomedical applications . International Journal of Nanomedicine, 2019, Volume 14, 6749-6777.	3.3	54
25	Adipose tissue regeneration. , 2019, , 291-330.		2
26	Surface modification of medical devices at nanoscaleâ€”recent development and translational perspectives. , 2019, , 163-189.		18
27	Engineering osteoblastic metastases to delineate the adaptive response of androgen-deprived prostate cancer in the bone metastatic microenvironment. Bone Research, 2019, 7, 13.	5.4	27
28	Stabilization of silver nanoparticles in chitosan and gelatin hydrogel and its applications. Materials Letters, 2019, 248, 241-245.	1.3	39
29	Remote Control in Formation of 3D Multicellular Assemblies Using Magnetic Forces. ACS Biomaterials Science and Engineering, 2019, 5, 2532-2542.	2.6	29
30	3D printed dual macro-, microscale porous network as a tissue engineering scaffold with drug delivering function. Biofabrication, 2019, 11, 035014.	3.7	47
31	Rational design of additively manufactured Ti6Al4V implants to control Staphylococcus aureus biofilm formation. Materialia, 2019, 5, 100250.	1.3	45
32	Immobilization of Antimicrobial Silver and Antioxidant Flavonoid as a Coating for Wound Dressing Materials . International Journal of Nanomedicine, 2019, Volume 14, 9929-9939.	3.3	15
33	Immobilization-Enhanced Eradication of Bacterial Biofilms and in situ Antimicrobial Coating of Implant Material Surface â€“ an in vitro Study . International Journal of Nanomedicine, 2019, Volume 14, 9351-9360.	3.3	12
34	3D printed Polycaprolactone scaffolds with dual macro-microporosity for applications in local delivery of antibiotics. Materials Science and Engineering C, 2018, 87, 78-89.	3.8	87
35	Polycrystalline Diamond Coating of Additively Manufactured Titanium for Biomedical Applications. ACS Applied Materials & Interfaces, 2018, 10, 8474-8484.	4.0	61
36	Comparative study of novel in situ decorated porous chitosan-selenium scaffolds and porous chitosan-silver scaffolds towards antimicrobial wound dressing application. Journal of Colloid and Interface Science, 2018, 515, 78-91.	5.0	71

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37	In vitro cytotoxicity of iron oxide nanoparticles: effects of chitosan and polyvinyl alcohol as stabilizing agents. Materials Research Express, 2018, 5, 035051.	0.8	16
38	A versatile three-dimensional foam fabrication strategy for soft and hard tissue engineering. Biomedical Materials (Bristol), 2018, 13, 025018.	1.7	15
39	Nanostructured biomedical selenium at the biological interface (Review). Biointerphases, 2018, 13, 06D301.	0.6	24
40	Mineralization of plasma treated polymer surfaces from super-saturated simulated body fluids. Materials Letters, 2018, 230, 12-15.	1.3	9
41	Novel hierarchical tantalum oxide-PDMS hybrid coating for medical implants: One pot synthesis, characterization and modulation of fibroblast proliferation. Journal of Colloid and Interface Science, 2017, 485, 106-115.	5.0	17
42	Breast Augmentation and Reconstruction from a Regenerative Medicine Point of View: State of the Art and Future Perspectives. Tissue Engineering - Part B: Reviews, 2017, 23, 281-293.	2.5	44
43	Conformal nanocarbon coating of alumina nanocrystals for biosensing and bioimaging. Carbon, 2017, 122, 422-427.	5.4	22
44	Combining mechanical foaming and thermally induced phase separation to generate chitosan scaffolds for soft tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 207-226.	1.9	33
45	Nanodiamond-polycaprolactone composite: A new material for tissue engineering with sub-dermal imaging capabilities. Materials Letters, 2016, 185, 185-188.	1.3	28
46	The influence of sterilization on nitrogen-included ultrananocrystalline diamond for biomedical applications. Materials Science and Engineering C, 2016, 61, 324-332.	3.8	23
47	Low cytotoxic trace element selenium nanoparticles and their differential antimicrobial properties againstS.aureusandE. coli. Nanotechnology, 2016, 27, 045101.	1.3	98
48	Intrinsic fluorescence of selenium nanoparticles for cellular imaging applications. Nanoscale, 2016, 8, 3376-3385.	2.8	39
49	Silver doped titanium oxideâ€“PDMS hybrid coating inhibits Staphylococcus aureus and Staphylococcus epidermidis growth on PEEK. Materials Science and Engineering C, 2015, 49, 201-209.	3.8	39
50	Fluorescent Nanodiamond Silk Fibroin Spheres: Advanced Nanoscale Bioimaging Tool. ACS Biomaterials Science and Engineering, 2015, 1, 1104-1113.	2.6	37
51	In situ formation of antimicrobial silver nanoparticles and the impregnation of hydrophobic polycaprolactone matrix for antimicrobial medical device applications. Materials Science and Engineering C, 2015, 47, 63-69.	3.8	55
52	Electrospun silk doped with selenium for antibacterial skin applications. , 2014, , .		1
53	Niobium oxideâ€“polydimethylsiloxane hybrid composite coatings for tuning primary fibroblast functions. Journal of Biomedical Materials Research - Part A, 2014, 102, 1478-1485.	2.1	13
54	Characterization and bioactive properties of zirconia based polymeric hybrid for orthopedic applications. Journal of Materials Science: Materials in Medicine, 2014, 25, 347-354.	1.7	10

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55	Experimental and computational investigations on fire resistance of GFRP composite for building faÃ§ade. Composites Part B: Engineering, 2014, 62, 218-229.	5.9	68
56	Simple one-step method to produce titanium dioxideâ€“polycaprolactone composite films with increased hydrophilicity, enhanced cellular interaction and improved degradation for skin tissue engineering. Journal of Materials Science, 2014, 49, 6373-6382.	1.7	7
57	Fabrication of planarised conductively patterned diamond for bio-applications. Materials Science and Engineering C, 2014, 43, 135-144.	3.8	23
58	Antimicrobial selenium nanoparticle coatings on polymeric medical devices. Nanotechnology, 2013, 24, 155101.	1.3	89
59	In VivoCaprine Model for Osteomyelitis and Evaluation of Biofilm-Resistant Intramedullary Nails. BioMed Research International, 2013, 2013, 1-11.	0.9	34
60	Fluorescent nanoparticles for biosensing applications. , 2013, , .		0
61	Understanding the wetting properties of nanostructured selenium coatings: the role of nanostructured surface roughness and air-pocket formation. International Journal of Nanomedicine, 2013, 8, 2001.	3.3	24
62	Nanostructured selenium anti-cancer coatings for orthopedic applications. , 2012, , 180-235.		0
63	Selenium nanoparticles for the prevention of PVC-related medical infections. , 2012, , .		4
64	Recent Advances in Research Applications of Nanophase Hydroxyapatite. ChemPhysChem, 2012, 13, 2495-2506.	1.0	110
65	Nanomaterialâ€Based Treatments for Medical Deviceâ€Associated Infections. ChemPhysChem, 2012, 13, 2481-2494.	1.0	50
66	Selenium nanoparticles inhibit Staphylococcus aureus growth. International Journal of Nanomedicine, 2011, 6, 1553.	3.3	245
67	Nanotechnologies for Cancer Sensing and Treatment. , 2011, , 1-39.		0
68	Titanium surfaces with adherent selenium nanoclusters as a novel anticancer orthopedic material. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1417-1428.	2.1	42
69	Differential effects of nanoselenium doping on healthy and cancerous osteoblasts in coculture on titanium. International Journal of Nanomedicine, 2010, 5, 351.	3.3	49
70	Selenium Nanocluster Coatings: Transforming Current Orthopedic Materials into Inhibiting Bone Cancer. Materials Science Forum, 2010, 638-642, 718-723.	0.3	1
71	Novel Anti-Cancer, Anti-Bacterial Coatings for Biomaterial Applications: Selenium Nanoclusters. Materials Research Society Symposia Proceedings, 2009, 1209, 1.	0.1	4
72	Carbon nanofibers and carbon nanotubes in regenerative medicine. Advanced Drug Delivery Reviews, 2009, 61, 1097-1114.	6.6	399

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73	Opportunities for nanotechnology-enabled bioactive bone implants. Journal of Materials Chemistry, 2009, 19, 2653.	6.7	79
74	Selenium nanocluster coatings for anti-cancer orthopedic applications. , 2009, , .		0
75	Transforming Orthopedic Biomaterials Into Bone Cancer Inhibiting Implants: The Role of Selenium Nanoclusters. Materials Research Society Symposia Proceedings, 2008, 1136, 20501.	0.1	0
76	Enhanced osteoblast adhesion on nanostructured selenium compacts for anti-cancer orthopedic applications. International Journal of Nanomedicine, 2008, 3, 391.	3.3	32
77	Novel anti-cancer orthopedic materials: Nanostructured selenium. , 2007, , .		1
78	In situ synthesis of zinc oxide/selenium composite for UV blocker application. International Journal of Applied Ceramic Technology, 0, , .	1.1	1