Phuong Nguyen Tri

List of Publications by Year
in descending order

96 papers	2,999 citations	172207 29 h-index	189595 50 g-index
100 all docs	100 docs citations	100 times ranked	3003 citing authors

#	Article	IF	Citations
1	Recent progress in the preparation, properties and applications of superhydrophobic nano-based coatings and surfaces: A review. Progress in Organic Coatings, 2019, 132, 235-256.	1.9	292
2	Adsorption mechanism of hexavalent chromium onto layered double hydroxides-based adsorbents: A systematic in-depth review. Journal of Hazardous Materials, 2019, 373, 258-270.	6.5	177
3	Nanocomposite Coatings: Preparation, Characterization, Properties, and Applications. International Journal of Corrosion, 2018, 2018, 1-19.	0.6	138
4	Lignocellulosic biorefineries: The current state of challenges and strategies for efficient commercialization. Renewable and Sustainable Energy Reviews, 2021, 148, 111258.	8.2	137
5	Review on discharge Plasma for water treatment: mechanism, reactor geometries, active species and combined processes. Journal of Water Process Engineering, 2020, 38, 101664.	2.6	116
6	Robust Superhydrophobic Cotton Fibers Prepared by Simple Dip-Coating Approach Using Chemical and Plasma-Etching Pretreatments. ACS Omega, 2019, 4, 7829-7837.	1.6	89
7	Antibacterial Activity of TiO2- and ZnO-Decorated with Silver Nanoparticles. Journal of Composites Science, 2019, 3, 61.	1.4	86
8	Accelerated degradation of water borne acrylic nanocomposites used in outdoor protective coatings. Polymer Degradation and Stability, 2016, 128, 65-76.	2.7	80
9	Synthesis of Gold Nanoparticles Decorated with Multiwalled Carbon Nanotubes (Au-MWCNTs) via Cysteaminium Chloride Functionalization. Scientific Reports, 2019, 9, 5667.	1.6	76
10	Recent Applications of Advanced Atomic Force Microscopy in Polymer Science: A Review. Polymers, 2020, 12, 1142.	2.0	69
11	Effects of antibacterial ZnO nanoparticles on the performance of a chitosan/gum arabic edible coating for post-harvest banana preservation. Progress in Organic Coatings, 2021, 151, 106057.	1.9	65
12	In vitro analysis of green fabricated silver nanoparticles (AgNPs) against Pseudomonas aeruginosa PA14 biofilm formation, their application on urinary catheter. Progress in Organic Coatings, 2021, 151, 106058.	1.9	60
13	Recent progress on MXenes and MOFs hybrids: Structure, synthetic strategies and catalytic water splitting. International Journal of Hydrogen Energy, 2023, 48, 6560-6574.	3.8	58
14	Stability of acrylic polyurethane coatings under accelerated aging tests and natural outdoor exposure: The critical role of the used photo-stabilizers. Progress in Organic Coatings, 2018, 124, 137-146.	1.9	57
15	Facile synthesis and characterization of hydroxyapatite from fish bones: Photocatalytic degradation of industrial dyes (crystal violet and Congo red). Progress in Organic Coatings, 2020, 148, 105890.	1.9	57
16	Pilot scale degradation of mono and multi volatile organic compounds by surface discharge plasma/TiO2 reactor: Investigation of competition and synergism. Journal of Hazardous Materials, 2018, 357, 305-313.	6.5	53
17	Treatment of hospital indoor air by a hybrid system of combined plasma with photocatalysis: Case of trichloromethane. Chemical Engineering Journal, 2018, 349, 276-286.	6.6	49
18	Electrical and thermal conductivity of ethylene vinyl acetate composite with graphene and carbon black filler. Polymer Testing, 2018, 72, 24-31.	2.3	48

#	Article	IF	Citations
19	Preparation of Recycled Polypropylene/ Organophilic Modified Layered Silicates Nanocomposites Part I: The Recycling Process of Polypropylene and the Mechanical Properties of Recycled Polypropylene/Organoclay Nanocomposites. Journal of Reinforced Plastics and Composites, 2008, 27, 1983-2000.	1.6	47
20	Nanoscale analysis of the photodegradation of polyester fibers by AFM-IR. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 196-204.	2.0	46
21	Crystallization behavior of poly(lactide)/poly(Î²â€hydroxybutyrate)/talc composites. Journal of Applied Polymer Science, 2013, 129, 3355-3365.	1.3	45
22	Artificial neural network modeling of cefixime photodegradation by synthesized CoBi2O4 nanoparticles. Environmental Science and Pollution Research, 2021, 28, 15436-15452.	2.7	45
23	Superior removal of dyes by mesoporous MgO/g-C3N4 fabricated through ultrasound method: Adsorption mechanism and process modeling. Environmental Research, 2022, 205, 112543.	3.7	43
24	Graphitic carbon nitride based immobilized and non-immobilized floating photocatalysts for environmental remediation. Chemosphere, 2022, 297, 134229.	4.2	35
25	Photochemical aging of an e-PTFE/NOMEXÂ® membrane used in firefighter protective clothing. Polymer Degradation and Stability, 2013, 98, 1300-1310.	2.7	33
26	Electrical and thermal phenomena in lowâ€density polyethylene/carbon black composites near the percolation threshold. Journal of Applied Polymer Science, 2019, 136, 47043.	1.3	32
27	Investigation of crosslinking, mechanical properties and weathering stability of acrylic polyurethane coating reinforced by SiO2 nanoparticles issued from rice husk ash. Materials Chemistry and Physics, 2020, 241, 122445.	2.0	32
28	Nanoscale Lamellar Assembly and Segregation Mechanism of Poly(3-hydroxybutyrate)/Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	30
29	Effects of radiation and role of plants in radioprotection: A critical review. Science of the Total Environment, 2021, 779, 146431.	3.9	30
30	Redox and photoinitiated crosslinking polymerization. Progress in Organic Coatings, 2005, 54, 230-239.	1.9	28
31	Mechanics and mechanisms of tear resistance of woven fabrics. Theoretical and Applied Fracture Mechanics, 2012, 61, 33-39.	2.1	28
32	Electrical, thermal and rheological properties of low-density polyethylene/ethylene vinyl acetate/graphene-like composite. Composites Part B: Engineering, 2019, 177, 107288.	5.9	27
33	Puncture of elastomer membranes by medical needles. Part II: Mechanics. International Journal of Fracture, 2009, 155, 83-91.	1.1	26
34	Crystallization and Segregation Behavior at the Submicrometer Scale of PCL/PEG Blends. Macromolecules, 2018, 51, 7266-7273.	2.2	26
35	Factors affecting the structure, phase transition and crystallization process of AlNi nanoparticles. Journal of Alloys and Compounds, 2020, 812, 152133.	2.8	25
36	Ethanol CO2 reforming on La2O3 and CeO2-promoted Cu/Al2O3 catalysts for enhanced hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 18398-18410.	3.8	24

#	Article	IF	Citations
37	Simulation on the Factors Affecting the Crystallization Process of FeNi Alloy by Molecular Dynamics. ACS Omega, 2019, 4, 14605-14612.	1.6	23
38	Chemical ageingaging of a polyester nonwoven membrane used in aerosol and drainage filter. Polymer Degradation and Stability, 2014, 101, 71-80.	2.7	22
39	Activated carbon with ultrahigh surface area derived from sawdust biowaste for the removal of rhodamine B in water. Environmental Technology and Innovation, 2021, 24, 101811.	3.0	22
40	Recent advances in bio-inspired multifunctional coatings for corrosion protection. Progress in Organic Coatings, 2022, 168, 106858.	1.9	22
41	Non-isothermal Crystallization Kinetics of Short Bamboo Fiber-reinforced Recycled Polypropylene Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 2576-2591.	1.6	21
42	Helium gas barrier and water absorption behavior of bamboo fiber reinforced recycled polypropylene. Journal of Reinforced Plastics and Composites, 2012, 31, 1638-1651.	1.6	21
43	Biological Activity and Nanostructuration of Fe3O4-Ag/High Density Polyethylene Nanocomposites. Journal of Composites Science, 2019, 3, 34.	1.4	21
44	A new four-variable refined plate theory for static analysis of smart laminated functionally graded carbon nanotube reinforced composite plates. Mechanics of Materials, 2020, 142, 103294.	1.7	21
45	Crosslinking process, mechanical and antibacterial properties of UV-curable acrylate/Fe3O4-Ag nanocomposite coating. Progress in Organic Coatings, 2020, 139, 105325.	1.9	20
46	Molecular dynamic study on factors influencing the structure, phase transition and crystallization process of NiCu6912 nanoparticle. Materials Chemistry and Physics, 2020, 250, 123075.	2.0	20
47	Enhanced antimicrobial, antibiofilm and anticancer activities of biocompatible neem gum coated palladium nanoparticles. Progress in Organic Coatings, 2021, 151, 106098.	1.9	20
48	Characterization of Slaughterhouse Wastewater and Development of Treatment Techniques: A Review. Processes, 2022, 10, 1300.	1.3	19
49	Biodiesel production from Ulva linza, Ulva tubulosa, Ulva fasciata, Ulva rigida, Ulva reticulate by using Mn2ZnO4 heterogenous nanocatalysts. Fuel, 2019, 255, 115744.	3.4	17
50	Photocatalytic degradation and heat reflectance recovery of waterborne acrylic polymer/ZnO nanocomposite coating. Journal of Applied Polymer Science, 2020, 137, 49116.	1.3	17
51	A facile strategy for the construction of TiO2/Ag nanohybrid-based polyethylene nanocomposite for antimicrobial applications. Nano Structures Nano Objects, 2021, 25, 100671.	1.9	17
52	DFT Prediction of Factors Affecting the Structural Characteristics, the Transition Temperature and the Electronic Density of Some New Conjugated Polymers. Polymers, 2020, 12, 1207.	2.0	17
53	Recent progress on the design and development of diaminotriazine based molecular catalysts for light-driven hydrogen production. Coordination Chemistry Reviews, 2022, 456, 214375.	9.5	17
54	Recent progress in air treatment with combined photocatalytic/plasma processes: A review. Journal of Environmental Management, 2021, 299, 113588.	3.8	16

#	Article	IF	Citations
55	The role of organic and inorganic UV-absorbents on photopolymerization and mechanical properties of acrylate-urethane coating. Materials Today Communications, 2020, 22, 100780.	0.9	15
56	Methods for Synthesis of Hybrid Nanoparticles. , 2019, , 51-63.		14
57	Acrylic polymer/TiO2 nanocomposite coatings: Mechanism for photo-degradation and solar heat reflective recovery. Materials Chemistry and Physics, 2021, 272, 124984.	2.0	14
58	Pulse potential deposition of thick polyvinylpyridine-like film on the surface of titanium nitride. RSC Advances, 2016, 6, 80825-80829.	1.7	13
59	Antibacterial Behavior of Hybrid Nanoparticles. , 2019, , 141-155.		13
60	Investigation of tearing mechanisms of woven textile. Polymer Composites, 2012, 33, 1578-1585.	2.3	12
61	Butyl Rubber-Based Composite: Thermal Degradation and Prediction of Service Lifetime. Journal of Composites Science, 2019, 3, 48.	1.4	12
62	Understanding the heterogeneous kinetics of Al nanoparticles by simulations method. Journal of Molecular Structure, 2020, 1218, 128498.	1.8	12
63	Ã‰laboration et propriÃ©tÃ©s des composites polypropylÃ¨ne recyclÃ©/fibres de bambou. Materiaux Et Techniques, 2012, 100, 413-423.	0.3	12
64	Combined puncture/cutting of elastomer membranes by pointed blades: Characterization of mechanisms. Journal of Applied Polymer Science, 2015, 132, .	1.3	11
65	Evaluation of the relationship between the aerothermodynamic process and operational parameters in the high-pressure turbine of an aircraft engine. Aerospace Science and Technology, 2019, 86, 93-105.	2.5	11
66	Smart nanoconcretes. , 2020, , 3-8.		11
67	Fabrication and modeling of prototype bike silencer using hybrid glass and chicken feather fiber/hydroxyapatite reinforced epoxy composites. Progress in Organic Coatings, 2020, 148, 105871.	1.9	10
68	On post-fire bond strength of steel rebar embedded in thermally-damaged concrete â€“ a review. Journal of Adhesion Science and Technology, 2023, 37, 370-410.	1.4	10
69	Comment on â€œremoval of hexavalent chromium by biochar supported nZVI composite: Batch and fixed-bed column evaluations, mechanisms, and secondary contamination preventionâ€• Chemosphere, 2019, 233, 988-990.	4.2	9
70	SARS-CoV-2 and its new variants: a comprehensive review on nanotechnological application insights into potential approaches. Applied Nanoscience (Switzerland), 2023, 13, 65-93.	1.6	8
71	Hydrogen: fuel of the near future. , 2020, , 1-20.		8
72	Combined puncture and cutting of elastomer membranes: A fracture energy approach. Journal of Applied Polymer Science, 2017, 134, .	1.3	7

#	Article	IF	Citations
73	Physics, Electrochemistry, Photochemistry, and Photoelectrochemistry of Hybrid Nanoparticles. , 2019, , 95-123.		7
74	Call for planning policy and biotechnology solutions for food waste management and valorization in Vietnam. Biotechnology Reports (Amsterdam, Netherlands), 2020, 28, e00529.	2.1	7
75	Removal of organic pollutants in water by the MCM-41 anchored with nickel(II) and copper(II) complexes. Environmental Technology and Innovation, 2021, 22, 101492.	3.0	7
76	Biological treatment of saline domestic wastewater by using a down-flow hanging sponge reactor. Chemosphere, 2021, 283, 131101.	4.2	7
77	Swelling behavior of polymeric membranes to metalworking fluids. Journal of Applied Polymer Science, 2018, 135, 45717.	1.3	6
78	Advanced Functional Materials for Intelligent Thermoregulation in Personal Protective Equipment. Polymers, 2021, 13, 3711.	2.0	6
79	Rapid Assessment of Biological Activity of Ag-Based Antiviral Coatings for the Treatment of Textile Fabrics Used in Protective Equipment Against Coronavirus. ACS Applied Bio Materials, 2022, 5, 3405-3417.	2.3	6
80	Aero-thermodynamic and chemical process interactions in an axial high-pressure turbine of aircraft engines. International Journal of Engine Research, 2019, 20, 653-669.	1.4	5
81	Nanomaterials-based coatings: an introduction. , 2019, , 1-7.		5
82	Synthesis of clayâ€armored coatable sulfonated polyimide nanocomposites as robust polyelectrolyte membranes. Journal of Applied Polymer Science, 2021, 138, 51310.	1.3	5
83	Evaluation of bioremediation competence of indigenous bacterial strains isolated from fabric dyeing effluent. Bioresource Technology Reports, 2020, 11, 100536.	1.5	4
84	Antibacterial nanocomposite coatings. , 2020, , 355-364.		4
85	Radically curable nano-based coatings. , 2019, , 339-372.		3
86	Graphene Oxide-Induced Interfacial Transcrystallization of Single-Fiber Milkweed/Polycaprolactone/Polyvinylchloride Composites. ACS Omega, 2020, 5, 22430-22439.	1.6	3
87	Nanomaterial for air remediation: an introduction. , 2020, , 3-8.		3
88	Miscibility, Morphology, and Crystallization Kinetics of Biodegradable Poly(Îµ-caprolactone)/Ascorbic Acid Blends. ACS Applied Polymer Materials, 2022, 4, 301-312.	2.0	3
89	3D modeling of transformation of gaseous pollutants in the high-pressure turbine of an aircraft engine. Propulsion and Power Research, 2020, 9, 1-14.	2.0	2
90	Smart nanotextiles: an introduction. , 2021, , 1-6.		2

#	Article	IF	Citations
91	Resistance of protective gloves materials to puncture by medical needles. Journal of ASTM International, 2010, 7, 1-16.	0.2	2
92	Nanogenerator-based hybrid systems for smart textiles. , 2021, , 83-92.		1
93	Morphology and properties of recycled polypropylene/bamboo fibers composites. , 2011, , .		0
94	Pulse potential deposition of vinylic polymers based on diazonium chemistry: recent developments and applications. , 2019, , 119-138.		0
95	Editorial for the Special Issue: Multifunctional Composites in the Journal of Composites Science. Journal of Composites Science, 2021, 5, 15.	1.4	0
96	Editorial for the Special Issue: Functional Polymer Composites. Polymers, 2021, 13, 909.	2.0	0