

# Supachok Tanpichai

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,242  
citations

279798  
23  
h-index

330143  
37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of the recent developments in cellulose nanocomposite processing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 83, 2-18.	7.6	573
2	Surface and Interface Engineering for Nanocellulosic Advanced Materials. <i>Advanced Materials</i> , 2021, 33, e2002264.	21.0	239
3	Effective Young's Modulus of Bacterial and Microfibrillated Cellulose Fibrils in Fibrous Networks. <i>Biomacromolecules</i> , 2012, 13, 1340-1349.	5.4	189
4	Cross-linked nanocomposite hydrogels based on cellulose nanocrystals and PVA: Mechanical properties and creep recovery. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 88, 226-233.	7.6	130
5	Keratin Extracted from Chicken Feather Waste: Extraction, Preparation, and Structural Characterization of the Keratin and Keratin/Biopolymer Films and Electrospuns. <i>Journal of Polymers and the Environment</i> , 2015, 23, 506-516.	5.0	83
6	Water Hyacinth: A Sustainable Lignin-Poor Cellulose Source for the Production of Cellulose Nanofibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18884-18893.	6.7	82
7	Review of the recent developments in all-cellulose nanocomposites: Properties and applications. <i>Carbohydrate Polymers</i> , 2022, 286, 119192.	10.2	81
8	Cross-linked polyvinyl alcohol (PVA) foams reinforced with cellulose nanocrystals (CNCs). <i>Cellulose</i> , 2016, 23, 1925-1938.	4.9	69
9	Porosity, density and mechanical properties of the paper of steam exploded bamboo microfibrils controlled by nanofibrillated cellulose. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3612-3622.	5.8	68
10	Study on structural and thermal properties of cellulose microfibrils isolated from pineapple leaves using steam explosion. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102836.	6.7	64
11	Micromechanics of TEMPO-Oxidized Fibrillated Cellulose Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 331-337.	8.0	54
12	Stress-transfer in microfibrillated cellulose reinforced poly(lactic acid) composites using Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1145-1152.	7.6	51
13	Mechanical and antibacterial properties of the chitosan coated cellulose paper for packaging applications: Effects of molecular weight types and concentrations of chitosan. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1510-1519.	7.5	51
14	Stress transfer in microfibrillated cellulose reinforced poly(vinyl alcohol) composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 65, 186-191.	7.6	44
15	Crosslinked poly(vinyl alcohol) composite films with cellulose nanocrystals: Mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45710.	2.6	41
16	Chitosan coating for the preparation of multilayer coated paper for food-contact packaging: Wettability, mechanical properties, and overall migration. <i>International Journal of Biological Macromolecules</i> , 2022, 213, 534-545.	7.5	41
17	Optically transparent tough nanocomposites with a hierarchical structure of cellulose nanofiber networks prepared by the Pickering emulsion method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105811.	7.6	37
18	Enhancement of thermal, mechanical and barrier properties of EVA solar cell encapsulating films by reinforcing with esterified cellulose nanofibers. <i>Polymer Testing</i> , 2015, 48, 12-22.	4.8	36

#	ARTICLE	IF	CITATIONS
19	All-cellulose composites from pineapple leaf microfibers: Structural, thermal, and mechanical properties. <i>Polymer Composites</i> , 2018, 39, 895-903.	4.6	33
20	Polyurethane/esterified cellulose nanocrystal composites as a transparent moisture barrier coating for encapsulation of dye sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45010.	2.6	32
21	Effect of clay content on morphology and processability of electrospun keratin/poly(lactic acid) nanofiber. <i>International Journal of Biological Macromolecules</i> , 2016, 85, 585-595.	7.5	30
22	Superabsorbent cellulose-based hydrogels cross-liked with borax. <i>Scientific Reports</i> , 2022, 12, .	3.3	30
23	Effects of Two Different Cellulose Nanofiber Types on Properties of Poly(vinyl alcohol) Composite Films. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-10.	2.7	27
24	All-cellulose composite laminates prepared from pineapple leaf fibers treated with steam explosion and alkaline treatment. <i>Journal of Reinforced Plastics and Composites</i> , 2017, 36, 1146-1155.	3.1	24
25	Extraction of Nanofibrillated Cellulose from Water Hyacinth Using a High Speed Homogenizer. <i>Journal of Natural Fibers</i> , 2022, 19, 5676-5696.	3.1	19
26	Recent development of plant-derived nanocellulose in polymer nanocomposite foams and multifunctional applications: A mini-review. <i>EXPRESS Polymer Letters</i> , 2022, 16, 52-74.	2.1	19
27	Transparency, moisture barrier property, and performance of the alternative solar cell encapsulants based on PU/PVDC blend reinforced with different types of cellulose nanocrystals. <i>Materials for Renewable and Sustainable Energy</i> , 2018, 7, 1.	3.6	14
28	Highly Thermal-Resilient AgNW Transparent Electrode and Optical Device on Thermomechanically Superstable Cellulose Nanorod-Reinforced Nanocomposites. <i>Advanced Optical Materials</i> , 2019, 7, 1900532.	7.3	14
29	Thermally Superstable Cellulosic-Nanorod-Reinforced Transparent Substrates Featuring Microscale Surface Patterns. <i>ACS Nano</i> , 2019, 13, 2015-2023.	14.6	13
30	Facile Single-step Preparation of Cellulose Nanofibers by TEMPO-mediated Oxidation and Their Nanocomposites. <i>Journal of Natural Fibers</i> , 2022, 19, 10094-10110.	3.1	12
31	Mechanical Properties of All-Cellulose Composites Made from Pineapple Leaf Microfibers. <i>Key Engineering Materials</i> , 2015, 659, 453-457.	0.4	8
32	Reinforcing abilities of microfibers and nanofibrillated cellulose in poly(lactic acid) composites. <i>Science and Engineering of Composite Materials</i> , 2018, 25, 395-401.	1.4	8
33	Using borax as a cross-linking agent in cellulose-based hydrogels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 600, 012013.	0.6	8
34	Preparation and Characterization of Iron Oxide Decorated Graphene Nanoplatelets for Use as Barrier Enhancing Fillers in Polyurethane Based Solar Cell Encapsulant. <i>Materials Today: Proceedings</i> , 2020, 23, 703-711.	1.8	6
35	Microfibrillated Cellulose Reinforced Poly(vinyl alcohol) Composites. <i>Advanced Materials Research</i> , 0, 747, 359-362.	0.3	4
36	Properties of Cellulose Microfibers Extracted from Pineapple Leaves by Steam Explosion. <i>Advanced Materials Research</i> , 2015, 1131, 231-234.	0.3	4

#	ARTICLE	IF	CITATIONS
37	Aligned-porous-structured poly(vinyl alcohol) foams with cellulose nanocrystals. AIP Conference Proceedings, 2018, , .	0.4	2
38	Physical Properties of PP/Recycled PET Blends Prepared by Pulverization Technique. Advanced Materials Research, 0, 488-489, 109-113.	0.3	1
39	Effects of Preparation Parameters on Morphology of Cellulose Nanowhiskers. Advanced Materials Research, 2014, 1044-1045, 35-38.	0.3	1
40	Functionalized graphene nanoplatelets as a barrier enhancing filler in organic photovoltaic encapsulant. Journal of Applied Polymer Science, 2021, 138, 50351.	2.6	0