Deshan Cheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4552197/publications.pdf

Version: 2024-02-01

34	1,249	304743	377865
papers	citations	22 h-index	34 g-index

35	35	35	1273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large-Scale Production of Highly Stretchable CNT/Cotton/Spandex Composite Yarn for Wearable Applications. ACS Applied Materials & Interfaces, 2018, 10, 32726-32735.	8.0	96
2	Stretchable and Highly Sensitive Braided Composite Yarn@Polydopamine@Polypyrrole for Wearable Applications. ACS Applied Materials & Interfaces, 2019, 11, 7338-7348.	8.0	88
3	Depositing a flexible substrate of triangular silver nanoplates onto cotton fabrics for sensitive SERS detection. Sensors and Actuators B: Chemical, 2018, 270, 508-517.	7.8	83
4	Conductive Cotton Fabrics for Motion Sensing and Heating Applications. Polymers, 2018, 10, 568.	4.5	76
5	Direct screen printing of single-faced conductive cotton fabrics for strain sensing, electrical heating and color changing. Cellulose, 2019, 26, 6179-6188.	4.9	71
6	In situ reduction of TiO2 nanoparticles on cotton fabrics through polydopamine templates for photocatalysis and UV protection. Cellulose, 2018, 25, 1413-1424.	4.9	65
7	In situ hydrothermal growth of Cu NPs on knitted fabrics through polydopamine templates for heating and sensing. Chemical Engineering Journal, 2020, 382, 123036.	12.7	63
8	Immobilizing CuO/BiVO4 nanocomposite on PDA-templated cotton fabric for visible light photocatalysis, antimicrobial activity and UV protection. Applied Surface Science, 2019, 493, 1167-1176.	6.1	62
9	Direct dip-coating of carbon nanotubes onto polydopamine-templated cotton fabrics for wearable applications. Cellulose, 2019, 26, 7569-7579.	4.9	62
10	One-step in-situ growth of zeolitic imidazole frameworks-8 on cotton fabrics for photocatalysis and antimicrobial activity. Cellulose, 2020, 27, 10447-10459.	4.9	48
11	Growing ZnO Nanoparticles on Polydopamine-Templated Cotton Fabrics for Durable Antimicrobial Activity and UV Protection. Polymers, 2018, 10, 495.	4.5	46
12	Highly sensitive and durable wearable strain sensors from a core-sheath nanocomposite yarn. Composites Part B: Engineering, 2020, 183, 107683.	12.0	38
13	Coreâ€“shell BiVO4@PDA composite photocatalysts on cotton fabrics for highly efficient photodegradation under visible light. Cellulose, 2019, 26, 6259-6273.	4.9	36
14	Polydopamine-assisted immobilization of Ag@AuNPs on cotton fabrics for sensitive and responsive SERS detection. Cellulose, 2019, 26, 4191-4204.	4.9	36
15	Mussel-inspired fabrication of superhydrophobic cotton fabric for oil/water separation and visible light photocatalytic. Cellulose, 2020, 27, 5421-5433.	4.9	35
16	Hydrothermal growing of cluster-like ZnO nanoparticles without crystal seeding on PET films via dopamine anchor. Applied Surface Science, 2019, 467-468, 534-542.	6.1	32
17	Large-scale production of weavable, dyeable and durable spandex/CNT/cotton core-sheath yarn for wearable strain sensors. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106520.	7.6	32
18	Conductive and durable CNT-cotton ring spun yarns. Cellulose, 2018, 25, 4239-4249.	4.9	28

#	Article	IF	Citations
19	Polydopamine-assisted deposition of CuS nanoparticles on cotton fabrics for photocatalytic and photothermal conversion performance. Cellulose, 2020, 27, 8443-8455.	4.9	27
20	Polydopamine-induced in-situ growth of zeolitic imidazolate framework-8/TiO2 nanoparticles on cotton fabrics for photocatalytic performance. Progress in Organic Coatings, 2021, 152, 106123.	3.9	27
21	Highly robust and durable core-sheath nanocomposite yarns for electro-thermochromic performance application. Chemical Engineering Journal, 2020, 384, 123376.	12.7	24
22	CNT/cotton composite yarn for electro-thermochromic textiles. Smart Materials and Structures, 2019, 28, 085003.	3.5	23
23	Recent advances on the fabrication methods of nanocomposite yarn-based strain sensor. Nanotechnology Reviews, 2021, 10, 221-236.	5.8	22
24	Highly Stretchable Sheathâ€“Core Yarns for Multifunctional Wearable Electronics. ACS Applied Materials & Interfaces, 2020, 12, 29717-29727.	8.0	20
25	In situ polymerization of pyrrole on CNT/cotton multifunctional composite yarn for supercapacitors. Ionics, 2021, 27, 279-288.	2.4	17
26	UV protective PET nanocomposites by a layer-by-layer deposition of TiO2 nanoparticles. Colloid and Polymer Science, 2017, 295, 2163-2172.	2.1	15
27	Durable UV-protective cotton fabric by deposition of multilayer TiO2 nanoparticles films on the surface. Journal of Coatings Technology Research, 2018, 15, 603-610.	2.5	14
28	Polydopamine-assisted in situ growth of three-dimensional ZnO/Ag nanocomposites on PET films for SERS and catalytic properties. Journal of Molecular Liquids, 2021, 338, 116639.	4.9	14
29	Loading CuFe2O4 onto ceramic fabric for photocatalytic degradation of methylene blue under visible light irradiation. Ceramics International, 2022, 48, 1256-1263.	4.8	13
30	WPU/Cu2-XSe coated cotton fabrics for photothermal conversion and photochromic applications. Cellulose, 2021, 28, 6727.	4.9	10
31	In situ growth of MnO2 on pDA-templated cotton fabric for degradation of formaldehyde. Cellulose, 2022, 29, 7353-7363.	4.9	9
32	Mussel-inspired synthesis of filter cotton-based AgNPs for oil/water separation, antibacterial and catalytic application. Materials Today Communications, 2020, 25, 101467.	1.9	8
33	Surface Characterisation of Polyelectrolyte/Silver Nanocomposite Films. Polymers and Polymer Composites, 2017, 25, 635-642.	1.9	5
34	Durable, Lightweight, Washable and Comfortable Cooling Textiles from Nanodiamond/Polydopamine/Wool Nanocomposites. Macromolecular Materials and Engineering, 2022, 307, .	3.6	4