Shih-Feng Tseng

List of Publications by Year
in descending order

38 papers	504 citations	623734 14 h-index	713466 21 g-index
38 all docs	38 docs citations	38 times ranked	520 citing authors

#	Article	IF	Citations
1	Electrode patterning on PEDOT:PSS thin films by pulsed ultraviolet laser for touch panel screens. Applied Physics A: Materials Science and Processing, 2013, 112, 41-47.	2.3	40
2	Laser-induced reduction of graphene oxide powders by high pulsed ultraviolet laser irradiations. Applied Surface Science, 2018, 444, 578-583.	6.1	38
3	The effect of laser patterning parameters on fluorine-doped tin oxide films deposited on glass substrates. Applied Surface Science, 2011, 257, 8813-8819.	6.1	32
4	Mechanical and optoelectric properties of post-annealed fluorine-doped tin oxide films by ultraviolet laser irradiation. Applied Surface Science, 2011, 257, 7204-7209.	6.1	30
5	Controlled bridge growth of ZnO nanowires on laser-scribed graphene-based devices for NO gas detection. Applied Surface Science, 2020, 508, 145204.	6.1	30
6	Laser micromilling of convex microfluidic channels onto glassy carbon for glass molding dies. Optics and Lasers in Engineering, 2014, 57, 58-63.	3.8	29
7	Arrayed porous polydimethylsiloxane/barium titanate microstructures for high-sensitivity flexible capacitive pressure sensors. Ceramics International, 2022, 48, 13144-13153.	4.8	25
8	Investigation of post-annealing aluminum-doped zinc oxide (AZO) thin films by a graphene-based heater. Applied Surface Science, 2018, 448, 163-167.	6.1	20
9	Picosecond laser micropatterning of graphene films for rapid heating chips. Applied Surface Science, 2018, 450, 380-386.	6.1	19
10	Investigation of interactions between ultrafast laser beams and screen-printed silver nanopaste films. Applied Surface Science, 2020, 512, 144696.	6.1	19
11	Pulsed Nd:YAG laser treatment of monocrystalline silicon substrate. International Journal of Advanced Manufacturing Technology, 2011, 56, 223-231.	3.0	17
12	Characteristics of Niâ€“Ir and Ptâ€“Ir hard coatings surface treated by pulsed Nd:YAG laser. Surface and Coatings Technology, 2010, 205, 1979-1984.	4.8	16
13	Characteristics of Graphene Oxide Films Reduced by Using an Atmospheric Plasma System. Nanomaterials, 2018, 8, 802.	4.1	15
14	High-performance graphene-based heaters fabricated using maskless ultraviolet laser patterning. International Journal of Advanced Manufacturing Technology, 2019, 102, 3011-3020.	3.0	15
15	Development of textile-based triboelectric nanogenerators integrated with plastic metal electrodes for wearable devices. International Journal of Advanced Manufacturing Technology, 2019, 104, 2633-2644.	3.0	14
16	High-yield production of graphene flakes using a novel electrochemical/mechanical hybrid exfoliation. International Journal of Advanced Manufacturing Technology, 2019, 104, 2751-2760.	3.0	14
17	Synthesis of nanograiny SnO2 films on laser-patterned graphene/ceramic substrates for low-temperature ethanol gas sensors. Ceramics International, 2021, 47, 33498-33508.	4.8	12
18	Surface microtexturing of Ti-6Al-4V and SS316L alloys using high pulsed fiber lasers for improving the adhesive bonded performance. Optics and Laser Technology, 2021, 143, 107349.	4.6	12

#	Article	IF	Citations
19	Investigation of interactions between high pulsed ultraviolet lasers and composite graphene/AgNWs films. Applied Surface Science, 2021, 570, 151060.	6.1	12
20	Investigation the interaction between the pulsed ultraviolet laser beams and PEDOT:PSS/graphene composite films. Applied Surface Science, 2015, 356, 486-491.	6.1	11
21	Laser structuring of parallel electrode array on graphene/glass substrates for rapid inspections of moisturizing efficacy. International Journal of Advanced Manufacturing Technology, 2017, 91, 3663-3671.	3.0	10
22	Ultrafast laser direct writing of screen-printed graphene-based strain electrodes for sensing glass deformation. Ceramics International, 2021, 47, 29099-29108.	4.8	10
23	Graphene-based chips fabricated by ultraviolet laser patterning for an electrochemical impedance spectroscopy. Sensors and Actuators B: Chemical, 2016, 226, 342-348.	7.8	9
24	Laser micromachining of screen-printed graphene for forming electrode structures. Applied Surface Science, 2016, 374, 305-311.	6.1	8
25	Development of Flexible Triboelectric Generators Based on Patterned Conductive Textile and PDMS Layers. Energies, 2021, 14, 1391.	3.1	7
26	A facile approach to fabrication and characterization of conductive conjugated polyvinyl alcohol/graphene composite nanofibers. Materials Letters, 2018, 233, 130-133.	2.6	6
27	Mechanical and microstructural properties of additively manufactured Tiâ€“6Alâ€“4ÂV stents with CO2 laser postannealing treatment. International Journal of Advanced Manufacturing Technology, 2022, 119, 6571-6581.	3.0	6
28	Adhesion enhancement of conductive graphene/PI substrates through a vacuum plasma system. Surface and Coatings Technology, 2020, 388, 125601.	4.8	5
29	Single-step fiber laser reduction and patterning of graphene oxide films for ceramic-based heaters. Ceramics International, 2021, 47, 23423-23432.	4.8	5
30	Laser-induced graphene via the far-infrared irradiation of polyimide films for flexible electric heater applications. International Journal of Advanced Manufacturing Technology, 2022, 120, 5351-5362.	3.0	5
31	Investigation of electrochemical reduction effects on graphene oxide powders for high-performance supercapacitors. International Journal of Advanced Manufacturing Technology, 2021, 113, 1203-1213.	3.0	4
32	Multilayer stack materials on silicon-based wafer dicing processes using ultraviolet laser direct dicing and milling methods. Optics and Laser Technology, 2018, 108, 441-449.	4.6	3
33	Superhydrophobic graphene/ceramic templates for the preparation of particulate drugs. Ceramics International, 2022, 48, 2021-2030.	4.8	3
34	Ultrafast laser structuring of graphene-based multi-zone heaters for the detection of antioxidant capacity. International Journal of Advanced Manufacturing Technology, 2019, 103, 3115-3124.	3.0	1
35	Investigation of line-shaped CO2 laser annealing on InN/AlN/sapphire substrates. International Journal of Advanced Manufacturing Technology, 2022, 120, 5687-5696.	3.0	1
36	A Simple Approach to MXene Micropatterning from Molecularly Driven Assembly. ACS Omega, 2021, 6, 35866-35875.	3.5	1

#	Article	IF	Citations
37	Portable optical instrumentation for the evaluation of the onsite antioxidant scavenging capacity assay. Instrumentation Science and Technology, 0, , 1-13.	1.8	0
38	Effects of hybrid surfactants on the quality and yield of graphene using a novel electrochemical-mechanical exfoliation process. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	0