

Jun Yeon Hwang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3495140/publications.pdf>

Version: 2024-02-01

65
papers

2,048
citations

257357

24
h-index

254106

43
g-index

69
all docs

69
docs citations

69
times ranked

3562
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing molecular-level surface redox sites of controllably oxidized black phosphorus nanosheets. <i>Nature Materials</i> , 2019, 18, 156-162.	13.3	215
2	Oxygen-deficient triple perovskites as highly active and durable bifunctional electrocatalysts for oxygen electrode reactions. <i>Science Advances</i> , 2018, 4, eaap9360.	4.7	195
3	Flame Retardant Epoxy Derived from Tannic Acid as Biobased Hardener. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3858-3865.	3.2	108
4	Extremely Efficient Liquid Exfoliation and Dispersion of Layered Materials by Unusual Acoustic Cavitation. <i>Scientific Reports</i> , 2014, 4, 5133.	1.6	101
5	Dynamic assembly of liquid crystalline graphene oxide gel fibers for ion transport. <i>Science Advances</i> , 2018, 4, eaau2104.	4.7	90
6	Analytical study on the 3D-printed structure and mechanical properties of basalt fiber-reinforced PLA composites using X-ray microscopy. <i>Composites Science and Technology</i> , 2019, 175, 18-27.	3.8	88
7	Carboxymethylated cellulose nanofibrils(CMCNFs) embedded in polyurethane foam as a modular adsorbent of heavy metal ions. <i>Carbohydrate Polymers</i> , 2018, 195, 136-142.	5.1	86
8	The effect of amino-silane coupling agents having different molecular structures on the mechanical properties of basalt fiber-reinforced polyamide 6,6 composites. <i>Composites Part B: Engineering</i> , 2019, 163, 511-521.	5.9	81
9	Highly flexible and stretchable thermally conductive composite film by polyurethane supported 3D networks of boron nitride. <i>Composites Science and Technology</i> , 2017, 152, 94-100.	3.8	56
10	Antimicrobial properties of lignin-decorated thin multi-walled carbon nanotubes in poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	2.6	49
11	Enhanced photovoltaic performance of inverted polymer solar cells utilizing versatile chemically functionalized ZnO@graphene quantum dot monolayer. <i>Nano Energy</i> , 2016, 20, 221-232.	8.2	44
12	Three-Dimensional Porous Copper-Graphene Heterostructures with Durability and High Heat Dissipation Performance. <i>Scientific Reports</i> , 2015, 5, 12710.	1.6	40
13	High-quality nitrogen-doped graphene films synthesized from pyridine via two-step chemical vapor deposition. <i>Carbon</i> , 2020, 159, 579-585.	5.4	40
14	Strengthening of Al _{0.15} CoCrCuFeNiTi \hat{a}^{C} ($\hat{x}\hat{a}^{\text{C}}=\hat{a}^{\text{C}}0$, 1, 2) high-entropy alloys by grain refinement and using nanoscale carbides via powder metallurgical route. <i>Journal of Alloys and Compounds</i> , 2018, 762, 29-37.	2.8	36
15	Highly active and thermally stable single-atom catalysts for high-temperature electrochemical devices. <i>Energy and Environmental Science</i> , 2020, 13, 4903-4920.	15.6	35
16	Ultrahigh strength, modulus, and conductivity of graphitic fibers by macromolecular coalescence. <i>Science Advances</i> , 2022, 8, eabn0939.	4.7	34
17	Structural effect of two-dimensional BNNS on grain growth suppressing behaviors in Al-matrix nanocomposites. <i>Scientific Reports</i> , 2018, 8, 1614.	1.6	33
18	Sulfur-Doped Carbon Nanotemplates for Sodium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 1846-1852.	2.5	32

#	ARTICLE	IF	CITATIONS
19	Strength versus ductility in carbon nanotube reinforced nickel matrix nanocomposites. <i>Journal of Materials Research</i> , 2014, 29, 761-769.	1.2	31
20	3D microstructural characterization and mechanical properties determination of short basalt fiber-reinforced polyamide 6,6 composites. <i>Composites Part B: Engineering</i> , 2020, 187, 107839.	5.9	31
21	Anisotropic microstructure dependent mechanical behavior of 3D-printed basalt fiber-reinforced thermoplastic composites. <i>Composites Part B: Engineering</i> , 2021, 224, 109184.	5.9	30
22	Modified tunicate nanocellulose liquid crystalline fiber as closed loop for recycling platinum-group metals. <i>Carbohydrate Polymers</i> , 2020, 228, 115424.	5.1	29
23	Laser-Deposited In Situ TiC-Reinforced Nickel Matrix Composites: 3D Microstructure and Tribological Properties. <i>Jom</i> , 2014, 66, 935-942.	0.9	28
24	Structural Recovery of Highly Oxidized Single-Walled Carbon Nanotubes Fabricated by Kneading and Electrochemical Applications. <i>Chemistry of Materials</i> , 2019, 31, 3468-3475.	3.2	28
25	A study of the correlation between the oxidation degree and thickness of graphene oxides. <i>Carbon</i> , 2022, 189, 579-585.	5.4	26
26	In situ nitridation of titanium-molybdenum alloys during laser deposition. <i>Journal of Materials Science</i> , 2012, 47, 7157-7166.	1.7	24
27	Synthesis of nanobelt-like 1-dimensional silver/nanocarbon hybrid materials for flexible and wearable electronics. <i>Scientific Reports</i> , 2017, 7, 4931.	1.6	23
28	Recovery Mechanism of Degraded Black Phosphorus Field-Effect Transistors by 1,2-Ethanedithiol Chemistry and Extended Device Stability. <i>Small</i> , 2018, 14, 1703194.	5.2	23
29	Rapid synthesis of graphene by chemical vapor deposition using liquefied petroleum gas as precursor. <i>Carbon</i> , 2019, 145, 462-469.	5.4	23
30	Controlled synthesis of N-type single-walled carbon nanotubes with 100% of quaternary nitrogen. <i>Carbon</i> , 2020, 167, 881-887.	5.4	22
31	Enhanced Photovoltaic Performance of Inverted Polymer Solar Cells Utilizing Multifunctional Quantum-Dot Monolayers. <i>Advanced Energy Materials</i> , 2015, 5, 1401130.	10.2	20
32	Directly-prelithiated carbon nanotube film for high-performance flexible lithium-ion battery electrodes. <i>Fibers and Polymers</i> , 2017, 18, 2334-2341.	1.1	20
33	Carbon nanotube fibers with high specific electrical conductivity: Synergistic effect of heteroatom doping and densification. <i>Carbon</i> , 2021, 184, 207-213.	5.4	20
34	Multilayered graphene grafted copper wires. <i>Carbon</i> , 2018, 139, 666-671.	5.4	19
35	Solution-processable method for producing high-quality reduced graphene oxide displaying "self-catalytic healing"™. <i>Carbon</i> , 2019, 141, 774-781.	5.4	19
36	Amino acids derived nitrogen-doped carbon materials for electrochemical capacitive energy storage. <i>Materials Letters</i> , 2015, 145, 273-278.	1.3	17

#	ARTICLE	IF	CITATIONS
37	Effects of Hard Segment of Polyurethane with Disulfide Bonds on Shape Memory and Self-Healing Ability. <i>Macromolecular Research</i> , 2020, 28, 234-240.	1.0	17
38	Enhanced mechanical properties and thermal conductivity of polyimide nanocomposites incorporating individualized boron-doped graphene. <i>Carbon Letters</i> , 2020, 30, 457-464.	3.3	16
39	Encapsulation and Enhanced Delivery of Topoisomerase I Inhibitors in Functionalized Carbon Nanotubes. <i>ACS Omega</i> , 2018, 3, 5938-5945.	1.6	15
40	One step synthesis of Au nanoparticle-cyclized polyacrylonitrile composite films and their use in organic nano-floating gate memory applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1511-1516.	2.7	14
41	Direct observation of morphological evolution of a catalyst during carbon nanotube forest growth: new insights into growth and growth termination. <i>Nanoscale</i> , 2016, 8, 2055-2062.	2.8	14
42	Dehydrogenative Oxidation of Alcohols Catalyzed by Highly Dispersed Ruthenium Incorporated Titanium Oxide. <i>Catalysts</i> , 2017, 7, 7.	1.6	14
43	Deformation behavior of nanocrystalline and ultrafine-grained CoCrCuFeNi high-entropy alloys. <i>Journal of Materials Research</i> , 2019, 34, 720-731.	1.2	14
44	Deriving structural perfection in the structure of polyacrylonitril-based electrospun carbon nanofibers. <i>Carbon</i> , 2019, 147, 612-615.	5.4	14
45	Copper-graphene heterostructure for back-end-of-line compatible high-performance interconnects. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	13
46	Influence of composition on monomodal versus multimodal δ precipitation in Ni-Al-Cr alloys. <i>Journal of Materials Science</i> , 2013, 48, 825-831.	1.7	12
47	Three-dimensional microstructure evolution and mechanical behavior of nanoporous Cu foams. <i>Acta Materialia</i> , 2016, 113, 170-179.	3.8	12
48	Anisotropic mechanical properties and strengthening mechanism in superaligned carbon nanotubes-reinforced aluminum. <i>Carbon</i> , 2019, 153, 513-524.	5.4	12
49	Outstanding Strengthening and Toughening Behavior of 3D-Printed Fiber-Reinforced Composites Designed by Biomimetic Interfacial Heterogeneity. <i>Advanced Science</i> , 2022, 9, e2103561.	5.6	11
50	Complex anisotropic fracture behaviors of 3D-printed fiber-reinforced composites based on multi-scale hierarchical microstructure. <i>Composites Science and Technology</i> , 2022, 218, 109176.	3.8	10
51	Ultrafast Heating for Intrinsic Properties of Atomically Thin Two-Dimensional Materials on Plastic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31222-31230.	4.0	7
52	Structure and properties of graphene oxide/cellulose hybrid fibers via divalent metal ions treatment. <i>Cellulose</i> , 2018, 25, 517-525.	2.4	7
53	Ultrathin Metal Crystals: Growth on Supported Graphene Surfaces and Applications. <i>Small</i> , 2018, 14, e1801529.	5.2	7
54	Charge transport effect and photovoltaic conversion of two-dimensional CdSeS quantum dot monolayers in inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11797-11805.	2.7	7

#	ARTICLE	IF	CITATIONS
55	A facile in-situ activation of protonated histidine-derived porous carbon for electrochemical capacitive energy storage. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 316-327.	2.9	6
56	Identification of Collapsed Carbon Nanotubes in High-Strength Fibers Spun from Compositionally Polydisperse Aerogels. <i>ACS Applied Nano Materials</i> , 2021, 4, 6947-6955.	2.4	6
57	Two-Dimensional Stacked Composites of Self-Assembled Alkane Layers and Graphene for Transparent Gas Barrier Films with Low Permeability. <i>Nano Letters</i> , 2022, 22, 286-293.	4.5	6
58	Electro-conductively deposited carbon fibers for power controllable heating elements. <i>RSC Advances</i> , 2015, 5, 26998-27002.	1.7	5
59	Crystalline structure and mechanical properties of poly(ethylene terephthalate) filament embedded with nanosize clay particles. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46321.	1.3	3
60	Microstructural and optical properties of nanocrystalline ZnO deposited onto vertically aligned carbon nanotubes by physical vapor deposition. <i>Materials Research Bulletin</i> , 2012, 47, 2756-2759.	2.7	2
61	Direct conjugation with a zero length linker of fullerene C ₇₀ to ZnO quantum dots for multicolor light-emitting diodes. <i>Materials Horizons</i> , 2020, 7, 1533-1541.	6.4	2
62	A Multifunctional Tyrosine-immobilized PAH Molecule as a Universal Cathode Interlayer Enables High-efficiency Inverted Polymer Solar Cells. <i>Advanced Optical Materials</i> , 2021, 9, 2101006.	3.6	2
63	Quantum Dots: Enhanced Photovoltaic Performance of Inverted Polymer Solar Cells Utilizing Multifunctional Quantum-Dot Monolayers (<i>Adv. Energy Mater.</i> 2/2015). <i>Advanced Energy Materials</i> , 2015, 5, n/a-n/a.	10.2	1
64	Photocatalytic Property of Nitrogen and Nickel Codoped Titanium Oxides. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1768-1771.	1.0	1
65	A Multifunctional Tyrosine-immobilized PAH Molecule as a Universal Cathode Interlayer Enables High-efficiency Inverted Polymer Solar Cells (<i>Advanced Optical Materials</i> 21/2021). <i>Advanced Optical Materials</i> , 2021, 9, 2170088.	3.6	0