

M Serdar Onses

List of Publications by Year in descending order

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76
papers

3,305
citations

159525

30
h-index

149623

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docs citations

77
times ranked

4020
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms, Capabilities, and Applications of High-Resolution Electrohydrodynamic Jet Printing. <i>Small</i> , 2015, 11, 4237-4266.	5.2	437
2	High-Resolution Patterns of Quantum Dots Formed by Electrohydrodynamic Jet Printing for Light-Emitting Diodes. <i>Nano Letters</i> , 2015, 15, 969-973.	4.5	355
3	Fabrication of Lithographically Defined Chemically Patterned Polymer Brushes and Mats. <i>Macromolecules</i> , 2011, 44, 1876-1885.	2.2	191
4	Inkjet Printing of Regenerated Silk Fibroin: From Printable Forms to Printable Functions. <i>Advanced Materials</i> , 2015, 27, 4273-4279.	11.1	174
5	Hierarchical patterns of three-dimensional block-copolymer films formed by electrohydrodynamic jet printing and self-assembly. <i>Nature Nanotechnology</i> , 2013, 8, 667-675.	15.6	157
6	Antibacterial, Antiviral, and Self-Cleaning Mats with Sensing Capabilities Based on Electrospun Nanofibers Decorated with ZnO Nanorods and Ag Nanoparticles for Protective Clothing Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5678-5690.	4.0	145
7	Fabrication of robust superhydrophobic surfaces by one-step spray coating: Evaporation driven self-assembly of wax and nanoparticles into hierarchical structures. <i>Chemical Engineering Journal</i> , 2020, 396, 125230.	6.6	143
8	Control over Position, Orientation, and Spacing of Arrays of Gold Nanorods Using Chemically Nanopatterned Surfaces and Tailored Particle-Particle-Surface Interactions. <i>ACS Nano</i> , 2012, 6, 5693-5701.	7.3	126
9	Antifouling superhydrophobic surfaces with bactericidal and SERS activity. <i>Chemical Engineering Journal</i> , 2022, 431, 133445.	6.6	72
10	Synthesis of Ag and TiO ₂ modified polycaprolactone electrospun nanofibers (PCL/TiO ₂ -Ag NFs) as a multifunctional material for SERS, photocatalysis and antibacterial applications. <i>Ecotoxicology and Environmental Safety</i> , 2020, 188, 109856.	2.9	63
11	Superhydrophobic coatings for food packaging applications: A review. <i>Food Packaging and Shelf Life</i> , 2022, 32, 100823.	3.3	57
12	Block Copolymer Assembly on Nanoscale Patterns of Polymer Brushes Formed by Electrohydrodynamic Jet Printing. <i>ACS Nano</i> , 2014, 8, 6606-6613.	7.3	52
13	Superhydrophobic coatings made from biocompatible polydimethylsiloxane and natural wax. <i>Progress in Organic Coatings</i> , 2019, 136, 105279.	1.9	52
14	Water Impact Resistant and Antireflective Superhydrophobic Surfaces Fabricated by Spray Coating of Nanoparticles: Interface Engineering via End-Grafted Polymers. <i>Macromolecules</i> , 2018, 51, 10011-10020.	2.2	50
15	Physically Unclonable Surfaces via Dewetting of Polymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11247-11259.	4.0	46
16	Robust superhydrophobicity on paper: Protection of spray-coated nanoparticles against mechanical wear by the microstructure of paper. <i>Surface and Coatings Technology</i> , 2017, 319, 301-308.	2.2	43
17	Fabrication of Plasmonically Active Substrates Using Engineered Silver Nanostructures for SERS Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39795-39803.	4.0	43
18	Superhydrophobic coatings with improved mechanical robustness based on polymer brushes. <i>Surface and Coatings Technology</i> , 2016, 299, 162-168.	2.2	42

#	ARTICLE	IF	CITATIONS
19	Photocatalytic green fabrication of Au nanoparticles on ZnO nanorods modified membrane as flexible and photocatalytic active reusable SERS substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124088.	2.3	41
20	Multiplexed patterning of cesium lead halide perovskite nanocrystals by additive jet printing for efficient white light generation. <i>Chemical Engineering Journal</i> , 2020, 380, 122493.	6.6	41
21	Organic Light-Emitting Physically Unclonable Functions. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	41
22	Effects of carbon nanomaterials and MXene addition on the performance of nitrogen doped MnO ₂ based supercapacitors. <i>Ceramics International</i> , 2022, 48, 7253-7260.	2.3	40
23	Solid substrates decorated with Ag nanostructures for the catalytic degradation of methyl orange. <i>Results in Physics</i> , 2019, 12, 1133-1141.	2.0	39
24	Transferring the structure of paper for mechanically durable superhydrophobic surfaces. <i>Surface and Coatings Technology</i> , 2021, 405, 126543.	2.2	36
25	Blood repellent superhydrophobic surfaces constructed from nanoparticle-free and biocompatible materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111864.	2.5	35
26	Chemical Funneling of Colloidal Gold Nanoparticles on Printed Arrays of End-Grafted Polymers for Plasmonic Applications. <i>ACS Nano</i> , 2020, 14, 8276-8286.	7.3	34
27	Electrohydrodynamic jet printing of micro-optical devices. <i>Manufacturing Letters</i> , 2014, 2, 4-7.	1.1	33
28	Self-Assembled Nanoparticle Arrays on Chemical Nanopatterns Prepared Using Block Copolymer Lithography. <i>ACS Macro Letters</i> , 2015, 4, 1356-1361.	2.3	33
29	Site-Specific Placement of Au Nanoparticles on Chemical Nanopatterns Prepared by Molecular Transfer Printing Using Block-Copolymer Films. <i>Advanced Functional Materials</i> , 2011, 21, 3074-3082.	7.8	30
30	Plasmonic assemblies of gold nanorods on nanoscale patterns of poly(ethylene glycol): Application in surface-enhanced Raman spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 449-455.	5.0	30
31	Highly Selective Immobilization of Au Nanoparticles onto Isolated and Dense Nanopatterns of Poly(2-vinyl pyridine) Brushes down to Single-Particle Resolution. <i>Langmuir</i> , 2012, 28, 7299-7307.	1.6	29
32	Tunable Assembly of Gold Nanoparticles on Nanopatterned Poly(ethylene glycol) Brushes. <i>Small</i> , 2013, 9, 4168-4174.	5.2	28
33	Microwave-assisted fabrication of high-performance supercapacitors based on electrodes composed of cobalt oxide decorated with reduced graphene oxide and carbon dots. <i>Journal of Energy Storage</i> , 2022, 49, 104103.	3.9	25
34	Assembly of Plasmonic Nanoparticles on Nanopatterns of Polymer Brushes Fabricated by Electrospin Nanolithography. <i>ACS Macro Letters</i> , 2017, 6, 603-608.	2.3	23
35	SERS-active hydrophobic substrates fabricated by surface growth of Cu nanostructures. <i>Microchemical Journal</i> , 2020, 154, 104628.	2.3	23
36	One-step deposition of hydrophobic coatings on paper for printed-electronics applications. <i>Cellulose</i> , 2019, 26, 3503-3512.	2.4	22

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37	SERS-active linear barcodes by microfluidic-assisted patterning. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 11-18.	5.0	22
38	Waxing the soot: Practical fabrication of all-organic superhydrophobic coatings from candle soot and carnauba wax. <i>Progress in Organic Coatings</i> , 2021, 153, 106169.	1.9	22
39	Fabrication of Nanopatterned Poly(ethylene glycol) Brushes by Molecular Transfer Printing from Poly(styrene- <i>block</i> -methyl methacrylate) Films to Generate Arrays of Au Nanoparticles. <i>Langmuir</i> , 2015, 31, 1225-1230.	1.6	20
40	Localization of Multiple DNA Sequences on Nanopatterns. <i>ACS Nano</i> , 2011, 5, 7899-7909.	7.3	19
41	Low temperature growth of graphene using inductively-coupled plasma chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2017, 309, 814-819.	2.2	19
42	Low bandgap microsphere-like magnetic nanocomposite: An enhanced photocatalyst for degradation of organic contaminants and fabrication of SERS-active surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 589, 124436.	2.3	19
43	Nanometer Scale Alignment of Block Copolymer Domains by Means of a Scanning Probe Tip. <i>Advanced Materials</i> , 2014, 26, 2999-3002.	11.1	17
44	Effect of fabric texture on the durability of fluorine-free superhydrophobic coatings. <i>Journal of Coatings Technology Research</i> , 2020, 17, 785-796.	1.2	17
45	Fabrication of superhydrophobic Ag@ZnO@Bi ₂ WO ₆ membrane disc as flexible and photocatalytic active reusable SERS substrate. <i>Journal of Molecular Structure</i> , 2021, 1223, 129258.	1.8	17
46	Modulating the Kinetics of Nanoparticle Adsorption for Simple and High-Yield Fabrication of Plasmonic Heterostructures as SERS Substrates. <i>ChemPhysChem</i> , 2017, 18, 2114-2122.	1.0	16
47	Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests. <i>Materials Science and Engineering C</i> , 2020, 112, 110897.	3.8	16
48	Sponge-derived natural bioactive glass microspheres with self-assembled surface channel arrays opening into a hollow core for bone tissue and controlled drug release applications. <i>Chemical Engineering Journal</i> , 2021, 407, 126667.	6.6	16
49	Rapid fabrication of high-performance transparent electrodes by electrospinning of reactive silver ink containing nanofibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 109-119.	2.9	16
50	Ink-jet printing of particle-free silver inks on fabrics with a superhydrophobic protection layer for fabrication of robust electrochemical sensors. <i>Microchemical Journal</i> , 2021, 164, 106038.	2.3	16
51	FRET enabled light harvesting within quantum dot loaded nanofibers. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 065111.	1.3	15
52	Solid-State Encapsulation and Color Tuning in Films of Cesium Lead Halide Perovskite Nanocrystals for White Light Generation. <i>ACS Applied Nano Materials</i> , 2019, 2, 1185-1193.	2.4	15
53	Chitosan Loses Innate Beneficial Properties after Being Dissolved in Acetic Acid: Supported by Detailed Molecular Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18083-18093.	3.2	15
54	Eco-Friendly Fabrication of Plasmonically Active Substrates Based on End-Grafted Poly(ethylene) Tj ETQqO O O rgBT /Overlock 10 Tf 50 62	3.2	14

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55	Production of natural chitin film from pupal shell of moth: Fabrication of plasmonic surfaces for SERS-based sensing applications. <i>Carbohydrate Polymers</i> , 2021, 262, 117909.	5.1	14
56	Highly compressible binder-free sponge supercapacitor electrode based on flower-like NiO/MnO ₂ /CNT. <i>Journal of Alloys and Compounds</i> , 2022, 913, 165053.	2.8	14
57	Unclonable Features via Electrospaying of Bulk Polymers. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5952-5964.	2.0	14
58	Ambient, rapid and facile deposition of polymer brushes for immobilization of plasmonic nanoparticles. <i>Applied Surface Science</i> , 2016, 385, 299-307.	3.1	12
59	Nanostructures for the Prevention, Diagnosis, and Treatment of SARS-CoV-2: A Review. <i>ACS Applied Nano Materials</i> , 2022, 5, 6029-6054.	2.4	12
60	In situ metallization of patterned polymer brushes created by molecular transfer print and fill. <i>Nanotechnology</i> , 2013, 24, 155602.	1.3	11
61	Interplay of Surface Energy and Bulk Thermodynamic Forces in Ordered Block Copolymer Droplets. <i>Macromolecules</i> , 2015, 48, 4717-4723.	2.2	11
62	Raman spectroscopy: A novel experimental approach to evaluating cisplatin induced tissue damage. <i>Talanta</i> , 2020, 207, 120343.	2.9	10
63	The relationship of surface roughness and wettability of 316L stainless steel implants with plastic deformation mechanisms. <i>Materials Today: Proceedings</i> , 2019, 7, 389-393.	0.9	7
64	Robust superhydrophobic fabrics by infusing structured polydimethylsiloxane films. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51358.	1.3	7
65	One-step Green Fabrication of Antimicrobial Surfaces via In Situ Growth of Copper Oxide Nanoparticles. <i>ACS Omega</i> , 2022, 7, 26504-26513.	1.6	7
66	Printing: Mechanisms, Capabilities, and Applications of High-Resolution Electrohydrodynamic Jet Printing (<i>Small</i> 34/2015). <i>Small</i> , 2015, 11, 4412-4412.	5.2	6
67	Writing chemical patterns using electrospun fibers as nanoscale inkpots for directed assembly of colloidal nanocrystals. <i>Nanoscale</i> , 2020, 12, 895-903.	2.8	6
68	Size and structure dependent ultrafast dynamics of plasmonic gold nanosphere heterostructures on poly (ethylene glycol) brushes. <i>Optical Materials</i> , 2017, 73, 83-88.	1.7	5
69	From bio-waste to biomaterials: The eggshells of Chinese oak silkworm as templates for SERS-active surfaces. <i>Chemical Engineering Journal</i> , 2021, 426, 131874.	6.6	5
70	Mesoporous One-Component Gold Microshells as 3D SERS Substrates. <i>Biosensors</i> , 2021, 11, 380.	2.3	5
71	Transferrable SERS Barcodes. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	5
72	Natural Wax-Stabilized Perovskite Nanocrystals as Pen-on-Paper Inks and Doughs. <i>ACS Applied Nano Materials</i> , 2022, 5, 6201-6212.	2.4	5

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73	In situ synthesis and direct immobilization of ssDNA on electron beam patterned hydrogen silsesquioxane. Journal of Vacuum Science & Technology B, 2009, 27, 3082.	1.3	3
74	Cover Image, Volume 138, Issue 41. Journal of Applied Polymer Science, 2021, 138, 51459.	1.3	1
75	Arrays of Multi-Color Emitting Cesium Lead Halide Perovskite Nanocrystals and Efficient White Light Generation by Tailored Anion Exchange Reactions and Electrohydrodynamic Jet Printing. , 2018, , .		0
76	Arrays of Plasmonic Nanoparticles Assembled on Patterns of Polymer Brushes Fabricated by Soft Lithography. Hittite Journal of Science & Engineering, 2020, 7, 181-188.	0.2	0