

# Daria Andreeva

## List of Publications by Year in descending order

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93  
papers

3,793  
citations

134610

34  
h-index

145109

60  
g-index

97  
all docs

97  
docs citations

97  
times ranked

4775  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Healing Anticorrosion Coatings Based on pH-Sensitive Polyelectrolyte/Inhibitor Sandwichlike Nanostructures. <i>Advanced Materials</i> , 2008, 20, 2789-2794.	11.1	300
2	Sustainable Personal Protective Clothing for Healthcare Applications: A Review. <i>ACS Nano</i> , 2020, 14, 12313-12340.	7.3	252
3	Application of Inhibitor-Loaded Halloysite Nanotubes in Active Anti-Corrosive Coatings. <i>Advanced Functional Materials</i> , 2009, 19, 1720-1727.	7.8	243
4	Surface-Modified Mesoporous SiO <sub>2</sub> Containers for Corrosion Protection. <i>Advanced Functional Materials</i> , 2009, 19, 2373-2379.	7.8	227
5	Smart self-repairing protective coatings. <i>Materials Today</i> , 2008, 11, 24-30.	8.3	180
6	Layer-by-Layer Polyelectrolyte/Inhibitor Nanostructures for Metal Corrosion Protection. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 1954-1962.	4.0	171
7	Sol-Gel/Polyelectrolyte Active Corrosion Protection System. <i>Advanced Functional Materials</i> , 2008, 18, 3137-3147.	7.8	115
8	Layer-by-Layer approaches for formation of smart self-healing materials. <i>Polymer Chemistry</i> , 2013, 4, 4834.	1.9	109
9	Buffering polyelectrolyte multilayers for active corrosion protection. <i>Journal of Materials Chemistry</i> , 2008, 18, 1738.	6.7	96
10	Large-Area Organization of pNIPAM-Coated Nanostars as SERS Platforms for Polycyclic Aromatic Hydrocarbons Sensing in Gas Phase. <i>Langmuir</i> , 2012, 28, 9168-9173.	1.6	94
11	Efficient three-component coupling catalysed by mesoporous copper-aluminum based nanocomposites. <i>Green Chemistry</i> , 2013, 15, 1238.	4.6	88
12	Piezoelectricity in Monolayer Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2020, 32, e1905504.	11.1	87
13	Two-dimensional adaptive membranes with programmable water and ionic channels. <i>Nature Nanotechnology</i> , 2021, 16, 174-180.	15.6	86
14	Surface Nanoarchitecture for Bio-Applications: Self-Regulating Intelligent Interfaces. <i>Advanced Functional Materials</i> , 2013, 23, 4483-4506.	7.8	79
15	Ultrasound-driven design of metal surface nanofoams. <i>Nanoscale</i> , 2010, 2, 722.	2.8	76
16	Cavitation Engineered 3D Sponge Networks and Their Application in Active Surface Construction. <i>Advanced Materials</i> , 2012, 24, 985-989.	11.1	76
17	Magnetic Microcapsules with Low Permeable Polypyrrole Skin Layer. <i>Macromolecular Rapid Communications</i> , 2006, 27, 931-936.	2.0	75
18	Layered material platform for surface plasmon resonance biosensing. <i>Scientific Reports</i> , 2019, 9, 20286.	1.6	55

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19	Self-healing properties of layer-by-layer assembled multilayers. <i>Polymer International</i> , 2015, 64, 713-723.	1.6	54
20	Sonochemical formation of metal sponges. <i>Nanoscale</i> , 2011, 3, 985-993.	2.8	53
21	Geometrical Features of Hydrogen Bonded Complexes Involving Sterically Hindered Pyridines. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10872-10879.	1.1	51
22	Sonochemical Activation of Al/Ni Hydrogenation Catalyst. <i>Advanced Functional Materials</i> , 2012, 22, 3128-3135.	7.8	49
23	Nanoengineered Metal Surface Capsules: Construction of a Metal Protection System. <i>Small</i> , 2012, 8, 820-825.	5.2	45
24	Hollow Polypyrrole Containers with Regulated Uptake/Release Properties. <i>Langmuir</i> , 2009, 25, 4780-4786.	1.6	43
25	Planar and van der Waals heterostructures for vertical tunnelling single electron transistors. <i>Nature Communications</i> , 2019, 10, 230.	5.8	43
26	Graphene-Based Technologies for Tackling COVID-19 and Future Pandemics. <i>Advanced Functional Materials</i> , 2021, 31, 2107407.	7.8	43
27	Light-Induced Water Splitting Causes High-Amplitude Oscillation of pH-Sensitive Layer-by-Layer Assemblies on TiO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13001-13004.	7.2	42
28	Ultrasound assisted formation of Al-Ni electrocatalyst for hydrogen evolution. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 142-147.	3.8	39
29	Novel Type of Self-Assembled Polyamide and Polyimide Nanoengineered Shells Fabrication of Microcontainers with Shielding Properties. <i>Langmuir</i> , 2007, 23, 9031-9036.	1.6	38
30	The use of ultrasonic cavitation for near-surface structuring of robust and low-cost AlNi catalysts for hydrogen production. <i>Green Chemistry</i> , 2015, 17, 2745-2749.	4.6	37
31	Ultrasound-assisted design of metal nanocomposites. <i>Chemical Communications</i> , 2010, 46, 7897.	2.2	35
32	Novel and Effective Copper-Aluminum Propane Dehydrogenation Catalysts. <i>Chemistry - A European Journal</i> , 2011, 17, 12254-12256.	1.7	34
33	Shape-Dependent Interactions of Palladium Nanocrystals with Hydrogen. <i>Small</i> , 2016, 12, 2450-2458.	5.2	34
34	How Can One Controllably Use of Natural pH in Polyelectrolyte Multilayers?. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600282.	1.9	34
35	Generation of a Porous Luminescent Structure Through Ultrasonically Induced Pathways of Silicon Modification. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5138-5142.	7.2	33
36	Effect of high intensity ultrasound on Al <sub>3</sub> Ni <sub>2</sub> , Al <sub>3</sub> Ni crystallite size in binary AlNi (50 wt% of Ni) alloy. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 26-30.	3.8	32

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37	Switching the Stiffness of Polyelectrolyte Assembly by Light to Control Behavior of Supported Cells. <i>Macromolecular Bioscience</i> , 2016, 16, 1422-1431.	2.1	32
38	Effect of Cavitation Bubble Collapse on the Modification of Solids: Crystallization Aspects. <i>Langmuir</i> , 2016, 32, 11072-11085.	1.6	32
39	Sonochemical Design of Cerium-Rich Anticorrosion Nanonetwork on Metal Surface. <i>Langmuir</i> , 2010, 26, 16973-16979.	1.6	29
40	Sononanoengineered magnesium-poly pyrrole hybrid capsules with synergetic trigger release. <i>Journal of Materials Chemistry</i> , 2012, 22, 13841.	6.7	26
41	Silver coated aluminium microrods as highly colloidal stable SERS platforms. <i>Nanoscale</i> , 2011, 3, 3265.	2.8	24
42	Up to which temperature ultrasound can heat the particle?. <i>Ultrasonics Sonochemistry</i> , 2015, 26, 9-14.	3.8	24
43	Perspectives in the design and application of composites based on graphene derivatives and bio-based polymers. <i>Polymer International</i> , 2020, 69, 1173-1186.	1.6	23
44	Polyelectrolyte Multilayered Nanofilms as a Novel Approach for the Protection of Hydrogen Storage Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 996-1001.	4.0	22
45	Ultrasound driven formation of metal-supported nanocatalysts. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 164-169.	2.2	22
46	Bio-inspired ultrasound assisted construction of synthetic sponges. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7547.	5.2	22
47	Local pH Gradient Initiated by Light on TiO <sub>2</sub> for Light-Triggered Modulation of Polyhistidine-Tagged Proteins. <i>ChemElectroChem</i> , 2016, 3, 1306-1310.	1.7	22
48	Light-Induced Proton Pumping with a Semiconductor: Vision for Photoproton Lateral Separation and Robust Manipulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24282-24289.	4.0	22
49	Microbubbles trigger oscillation of crystal size in solids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6286-6291.	1.3	21
50	Layer-by-Layer Approach for Design of Chemical Sensors and Biosensors. <i>Current Organic Chemistry</i> , 2015, 19, 1097-1116.	0.9	19
51	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1134-1140.	1.2	18
52	Ultrasonically Produced Porous Sponge Layer on Titanium to Guide Cell Behavior. <i>Advanced Engineering Materials</i> , 2016, 18, 476-483.	1.6	18
53	Using a chitosan nanolayer as an efficient pH buffer to protect pH-sensitive supramolecular assemblies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23843-23848.	1.3	17
54	Programmable Soft-Matter Electronics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2017-2022.	2.1	16

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55	Titanium dioxide-assisted photocatalytic induction of prophages to lytic cycle. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1974.	1.6	15
56	Coupling pH-Regulated Multilayers with Inorganic Surfaces for Bionic Devices and Infochemistry. <i>Langmuir</i> , 2019, 35, 8543-8556.	1.6	15
57	Layer-by-Layer Assembled Hybrid Materials for Sustainable Applications. <i>Current Organic Chemistry</i> , 2014, 18, 2315-2333.	0.9	14
58	Cross-Linkable Polyelectrolyte Multilayer Films of Tailored Charge Density. <i>Chemistry of Materials</i> , 2010, 22, 3323-3331.	3.2	13
59	Sonogenerated metal-hydrogen sponges for reactive hard templating. <i>Chemical Communications</i> , 2015, 51, 7606-7609.	2.2	12
60	Tick-Borne Encephalitis Electrochemical Detection by Multilayer Perceptron on Liquidâ€Metal Interface. <i>ACS Applied Bio Materials</i> , 2020, 3, 7352-7356.	2.3	12
61	Electrically Controlled Thermal Radiation from Reduced Graphene Oxide Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 27278-27283.	4.0	12
62	Phase structuring in metal alloys: Ultrasound-assisted top-down approach to engineering of nanostructured catalytic materials. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 556-562.	3.8	11
63	TECHNOLOGY AND APPLICATIONS OF GRAPHENE OXIDE MEMBRANES. <i>Surface Review and Letters</i> , 2021, 28, 2140004.	0.5	10
64	Allâ€Dielectric Nanostructures with a Thermoresponsive Dynamic Polymer Shell. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12737-12741.	7.2	10
65	Electroâ€Thermo Controlled Water Valve Based on 2D Grapheneâ€Cellulose Hydrogels. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10
66	Sononanostructuring of zinc-based materials. <i>RSC Advances</i> , 2012, 2, 12460.	1.7	9
67	Controllable manipulation of crystallinity and morphology of aluminium surfaces using high intensity ultrasound. <i>Applied Acoustics</i> , 2016, 103, 190-194.	1.7	9
68	Lightâ€toâ€Heat Photothermal Dynamic Properties of Polypyrroleâ€Based Coating for Regenerative Therapy and Labâ€onâ€aâ€Chip Applications. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000980.	1.9	9
69	Multifunctional 2D materials for antiviral protection and detection. <i>National Science Review</i> , 2022, 9, nwab095.	4.6	8
70	Formation of polypyrrole/metal hybrid interfacial layer with self-regulation functions via ultrasonication. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013, 2, 123-129.	0.7	7
71	Highly Efficient Photodegradation of Organic Pollutants Assisted by Sonoluminescence. <i>Photochemistry and Photobiology</i> , 2015, 91, 59-67.	1.3	6
72	Photomobility and photohealing of cellulose-based hybrids. <i>Europhysics Letters</i> , 2017, 119, 38003.	0.7	6

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73	Robust and Flexible Optically Active 2D Membranes Based on Encapsulation of Liquid Crystals in Graphene Oxide Pockets. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101432.	1.9	6
74	Rapidly oscillating microbubbles force development of micro- and mesoporous interfaces and composition gradients in solids. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 439-443.	3.8	5
75	Grinding exfoliation for scalable production of 2D materials. <i>National Science Review</i> , 2020, 7, 559-560.	4.6	5
76	Silver melamine thin film as a flexible platform for SERS analysis. <i>Nanoscale</i> , 2021, 13, 7375-7380.	2.8	5
77	Light-Induced Water Splitting Causes High-Amplitude Oscillation of pH-Sensitive Layer-by-Layer Assemblies on TiO <sub>2</sub> . <i>Angewandte Chemie</i> , 2016, 128, 13195-13198.	1.6	4
78	Polyelectrolyte multilayers for drug delivery. , 2020, , 183-209.		4
79	Nanoarchitectonics of hyperbolic paraboloid 2D Graphene Oxide Membranes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 2073-2079.	0.6	4
80	Use of high-intensity ultrasound for production of antimicrobial and self-cleaning surfaces. , 2017, , 229-264.		3
81	ENHANCEMENT OF REDUCED GRAPHENE OXIDE BOLOMETRIC PHOTORESPONSE VIA ADDITION OF GRAPHENE QUANTUM DOTS. <i>Surface Review and Letters</i> , 2021, 28, 2140011.	0.5	2
82	Technology and Applications of Graphene Oxide Membranes. , 2021, , 379-422.		2
83	Metal Capsules: Nanoengineered Metal Surface Capsules: Construction of a Metal-Protection System (Small 6/2012). <i>Small</i> , 2012, 8, 819-819.	5.2	1
84	Active Surfaces: Cavitation Engineered 3D Sponge Networks and Their Application in Active Surface Construction (Adv. Mater. 7/2012). <i>Advanced Materials</i> , 2012, 24, 984-984.	11.1	1
85	Ultrasound-Assisted Synthesis of Electrocatalysts for Hydrogen Production. , 2016, , 525-552.		1
86	All-Dielectric Nanostructures with a Thermoresponsive Dynamic Polymer Shell. <i>Angewandte Chemie</i> , 2021, 133, 12847-12851.	1.6	1
87	ULTRASOUND-ASSISTED FORMATION OF METAL BASED NANOCOMPOSITES. , 2011, , .		0
88	Hierarchical Materials: SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum (Part. Part. Syst.) <i>Tj ETQq0 0 0 rgBI.4 Overlock 10 Tf 50</i>		0
89	Ultrasound-Assisted Synthesis of Electrocatalysts. , 2015, , 1-28.		0
90	Piezoelectric Materials: Piezoelectricity in Monolayer Hexagonal Boron Nitride (Adv. Mater. 1/2020). <i>Advanced Materials</i> , 2020, 32, 2070006.	11.1	0

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91	Polymer Coatings: Light-to-Heat Photothermal Dynamic Properties of Polypyrrole-Based Coating for Regenerative Therapy and Lab-on-a-Chip Applications (Adv. Mater. Interfaces 21/2020). Advanced Materials Interfaces, 2020, 7, 2070117.	1.9	0
92	Ultrasound-Assisted Synthesis of Electrocatalysts for Hydrogen Production. , 2016, , 1-28.		0
93	Enhancement of Reduced Graphene Oxide Bolometric Photoresponse via Addition of Graphene Quantum Dots. , 2021, , 423-436.		0