

# Barbara Cortese

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

2,058  
citations

236912

25  
h-index

243610

44  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobicity Due to the Hierarchical Scale Roughness of PDMS Surfaces. <i>Langmuir</i> , 2008, 24, 2712-2718.	3.5	238
2	Superhydrophobic fabrics for oil/water separation through a diamond like carbon (DLC) coating. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6781-6789.	10.3	164
3	Influence of electrotaxis on cell behaviour. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 817-830.	1.3	126
4	Reversibly Light-Switchable Wettability of Hybrid Organic/Inorganic Surfaces With Dual Micro-Nanoscale Roughness. <i>Advanced Functional Materials</i> , 2009, 19, 1149-1157.	14.9	115
5	Effects of plasma treatments for improving extreme wettability behavior of cotton fabrics. <i>Cellulose</i> , 2014, 21, 741-756.	4.9	88
6	Ultra Hydrophobic/Superhydrophilic Modified Cotton Textiles through Functionalized Diamond-Like Carbon Coatings for Self-Cleaning Applications. <i>Langmuir</i> , 2013, 29, 2775-2783.	3.5	85
7	Influence of Chemistry and Topology Effects on Superhydrophobic CF <sub>4</sub> -Plasma-Treated Poly(dimethylsiloxane) (PDMS). <i>Langmuir</i> , 2008, 24, 1833-1843.	3.5	75
8	Microglia shape presynaptic properties at developing glutamatergic synapses. <i>Glia</i> , 2019, 67, 53-67.	4.9	72
9	Defective microglial development in the hippocampus of Cx3cr1 deficient mice. <i>Frontiers in Cellular Neuroscience</i> , 2015, 09, 111.	3.7	65
10	Underwater Wenzel and Cassie oleophobic behaviour. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3854-3861.	10.3	59
11	Mechanical Gradient Cues for Guided Cell Motility and Control of Cell Behavior on Uniform Substrates. <i>Advanced Functional Materials</i> , 2009, 19, 2961-2968.	14.9	55
12	Chemically resistant microfluidic valves from Viton® membranes bonded to COC and PMMA. <i>Lab on A Chip</i> , 2011, 11, 2455.	6.0	52
13	Environmental stimuli shape microglial plasticity in glioma. <i>ELife</i> , 2017, 6, .	6.0	51
14	Therapeutic PCL scaffold for reparation of resected osteosarcoma defect. <i>Scientific Reports</i> , 2017, 7, 12672.	3.3	44
15	Characterisation of an irreversible bonding process for COC-COC and COC-PDMS-COC sandwich structures and application to microvalves. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1473-1480.	7.8	43
16	A brief review of surface-functionalized cotton fabrics. <i>Surface Innovations</i> , 2013, 1, 140-156.	2.3	42
17	Controlling the Wettability of Hierarchically Structured Thermoplastics. <i>Langmuir</i> , 2012, 28, 896-904.	3.5	40
18	Flame retardant properties of plasma pre-treated/diamond-like carbon (DLC) coated cotton fabrics. <i>Cellulose</i> , 2015, 22, 2797-2809.	4.9	40

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19	Fabrication of Eu-TiO <sub>2</sub> NCs functionalized cotton textile as a multifunctional photocatalyst for dye pollutants degradation. <i>Applied Surface Science</i> , 2018, 427, 81-91.	6.1	40
20	Bioinspired design of a photoresponsive superhydrophobic/oleophilic surface with underwater superoleophobic efficacy. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17666-17675.	10.3	39
21	mRNA delivery using non-viral PCL nanoparticles. <i>Biomaterials Science</i> , 2015, 3, 144-151.	5.4	39
22	Development of superhydrophobic, self-cleaning, and flame-resistant DLC/TiO <sub>2</sub> melamine sponge for application in oil/water separation. <i>Journal of Materials Science</i> , 2020, 55, 2846-2859.	3.7	39
23	Biomimetic Nanocarriers for Cancer Target Therapy. <i>Bioengineering</i> , 2020, 7, 111.	3.5	34
24	Exploring the Use of Dimethyl Fumarate as Microglia Modulator for Neurodegenerative Diseases Treatment. <i>Antioxidants</i> , 2020, 9, 700.	5.1	30
25	Argon and hydrogen plasma influence on the protective properties of diamond-like carbon films as barrier coating. <i>Surfaces and Interfaces</i> , 2017, 6, 60-71.	3.0	29
26	Smart conservation methodology for the preservation of copper-based objects against the hazardous corrosion. <i>Thin Solid Films</i> , 2017, 622, 130-135.	1.8	27
27	Influence of variable substrate geometry on wettability and cellular responses. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 582-589.	9.4	24
28	The Glycoside Oleandrin Reduces Glioma Growth with Direct and Indirect Effects on Tumor Cells. <i>Journal of Neuroscience</i> , 2017, 37, 3926-3939.	3.6	23
29	Engineering Transfer of Micro- and Nanometer-Scale Features by Surface Energy Modification. <i>Langmuir</i> , 2009, 25, 7025-7031.	3.5	22
30	Organic light emitting diodes with highly conductive micropatterned polymer anodes. <i>Organic Electronics</i> , 2008, 9, 401-406.	2.6	21
31	ATP release during cell swelling activates a Ca <sup>2+</sup> -dependent Cl <sup>-</sup> current by autocrine mechanism in mouse hippocampal microglia. <i>Scientific Reports</i> , 2017, 7, 4184.	3.3	21
32	Antibiotics Treatment Modulates Microglia-Synapses Interaction. <i>Cells</i> , 2021, 10, 2648.	4.1	17
33	Microenvironmental Rigidity of 3D Scaffolds and Influence on Glioblastoma Cells: A Biomaterial Design Perspective. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 131.	4.1	16
34	Wool-Like Hollow Polymeric Nanoparticles for CML Chemo-Combinatorial Therapy. <i>Pharmaceutics</i> , 2018, 10, 52.	4.5	16
35	Erythrocytes and Nanoparticles: New Therapeutic Systems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2173.	2.5	16
36	Nanoparticles for Diagnosis and Target Therapy in Pediatric Brain Cancers. <i>Diagnostics</i> , 2022, 12, 173.	2.6	16

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37	Sustained anti-BCR-ABL activity with pH responsive imatinib mesylate loaded PCL nanoparticles in CML cells. <i>MedChemComm</i> , 2015, 6, 212-221.	3.4	15
38	Dimethyl Fumarate Reduces Microglia Functional Response to Tissue Damage and Favors Brain Iron Homeostasis. <i>Neuroscience</i> , 2020, 439, 241-254.	2.3	15
39	Hybrid Clustered Nanoparticles for Chemo-Antibacterial Combinatorial Cancer Therapy. <i>Cancers</i> , 2019, 11, 1338.	3.7	14
40	The influence of polydimethylsiloxane curing ratio on capillary pressure in microfluidic devices. <i>Applied Surface Science</i> , 2012, 258, 8032-8039.	6.1	11
41	Coupled delivery of imatinib mesylate and doxorubicin with nanoscaled polymeric vectors for a sustained downregulation of BCR-ABL in chronic myeloid leukemia. <i>Biomaterials Science</i> , 2015, 3, 361-372.	5.4	10
42	Capsid-like biodegradable poly-glycolic acid nanoparticles for a long-time release of nucleic acid molecules. <i>Materials Advances</i> , 2021, 2, 310-321.	5.4	9
43	Micro-chemical and -morphological features of heat treated plasma sprayed zirconia-based thermal barrier coatings. <i>Thin Solid Films</i> , 2013, 549, 321-329.	1.8	8
44	Cell mechanotactic and cytotoxic response to zinc oxide nanorods depends on substrate stiffness. <i>Toxicology Research</i> , 2016, 5, 1699-1710.	2.1	8
45	3D Culture Modeling of Metastatic Breast Cancer Cells in Additive Manufactured Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28389-28402.	8.0	8
46	Group IIâ€“VI Semiconductors. , 2019, , 397-464.		7
47	Mechanical Durotactic Environment Enhances Specific Glioblastoma Cell Responses. <i>Cancers</i> , 2019, 11, 643.	3.7	7
48	Understanding the metal free alginate gelation process. <i>RSC Advances</i> , 2021, 11, 34449-34455.	3.6	4
49	Infection Rate of Respiratory Viruses in the Pandemic SARS-CoV-2 Period Considering Symptomatic Patients: Two Years of Ongoing Observations. <i>Biomolecules</i> , 2022, 12, 987.	4.0	4
50	Unconventional tailorable patterning by solvent-assisted surface-tension-driven lithography. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 44-52.	9.4	3
51	Nanostructuring Iridium Complexes into Crystalline Phosphorescent Nanoparticles: Structural Characterization, Photophysics, and Biological Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 4594-4603.	4.6	3
52	Time-lapse Whole-field Fluorescence Imaging of Microglia Processes Motility in Acute Mouse Hippocampal Slices and Analysis. <i>Bio-protocol</i> , 2019, 9, e3220.	0.4	3
53	Reversible wettability of hybrid organic/inorganic surfaces of systems upon light irradiation/storage cycles. <i>International Journal of Nanomanufacturing</i> , 2010, 6, 312.	0.3	2
54	Gene therapy with nonviral poly( $\epsilon$ -caprolactone) nanoparticles. <i>Therapeutic Delivery</i> , 2015, 6, 769-771.	2.2	2

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55	Dexamethasone delivery with coated calcium carbonate microcubes for sustained growth of osteoblasts. <i>Rendiconti Lincei</i> , 2015, 26, 239-244.	2.2	1
56	Mechanical guidance of cell migration. , 0, , 563-580.		1
57	MOS Meets NEMS: The Born of Hybrid Devices. , 2018, , .		0
58	Processing Techniques. , 2019, , 37-93.		0
59	Hybrid Polyelectrolyte Nanocomplexes for Non-Viral Gene Delivery with Favorable Efficacy and Safety Profile. <i>Pharmaceutics</i> , 2022, 14, 1310.	4.5	0