

# Vittorio Boffa

## List of Publications by Year in descending order

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57  
papers

1,374  
citations

257450

24  
h-index

361022

35  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal stability of microporous silica and niobia-silica membranes. <i>Journal of Membrane Science</i> , 2008, 319, 256-263.	8.2	138
2	Microporous Niobia-silica Membrane with Very Low CO <sub>2</sub> Permeability. <i>ChemSusChem</i> , 2008, 1, 437-443.	6.8	68
3	Biochemenergy: a project to turn an urban wastes treatment plant into biorefinery for the production of energy, chemicals and consumer's products with friendly environmental impact. <i>International Journal of Global Environmental Issues</i> , 2011, 11, 170.	0.1	62
4	One-step deposition of ultrafiltration SiC membranes on macroporous SiC supports. <i>Journal of Membrane Science</i> , 2014, 472, 232-240.	8.2	55
5	A roadmap for the development and applications of silicon carbide membranes for liquid filtration: Recent advancements, challenges, and perspectives. <i>Chemical Engineering Journal</i> , 2021, 414, 128826.	12.7	46
6	Use of biosurfactants from urban wastes compost in textile dyeing and soil remediation. <i>Waste Management</i> , 2009, 29, 383-389.	7.4	45
7	Deposition of thin ultrafiltration membranes on commercial SiC microfiltration tubes. <i>Ceramics International</i> , 2014, 40, 3277-3285.	4.8	45
8	Microporous niobia-silica membranes: Influence of sol composition and structure on gas transport properties. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 202-209.	4.4	40
9	Waste-Derived Bioorganic Substances for Light-Induced Generation of Reactive Oxygenated Species. <i>ChemSusChem</i> , 2011, 4, 85-90.	6.8	38
10	Biosurfactants from Urban Green Waste. <i>ChemSusChem</i> , 2009, 2, 239-247.	6.8	37
11	Enhanced fabrication of silicon carbide membranes for wastewater treatment: From laboratory to industrial scale. <i>Journal of Membrane Science</i> , 2020, 606, 118080.	8.2	37
12	Biosurfactants from Urban Wastes As Auxiliaries for Textile Dyeing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 3738-3748.	3.7	36
13	Refuse derived bio-organics and immobilized soybean peroxidase for green chemical technology. <i>Process Biochemistry</i> , 2012, 47, 2025-2031.	3.7	36
14	Water Defluoridation: Nanofiltration vs Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 14740-14748.	3.7	35
15	Biosurfactants from Urban Wastes for Detergent Formulation: Surface Activity and Washing Performance. <i>Journal of Surfactants and Detergents</i> , 2010, 13, 59-68.	2.1	34
16	Acid soluble bio-organic substances isolated from urban bio-waste. Chemical composition and properties of products. <i>Waste Management</i> , 2011, 31, 10-17.	7.4	34
17	Design and fabrication of silica-based nanofiltration membranes for water desalination and detoxification. <i>Microporous and Mesoporous Materials</i> , 2017, 237, 117-126.	4.4	34
18	Sensitizing effect of bio-based chemicals from urban wastes on the photodegradation of azo-dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 224-231.	3.9	33

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19	Revealing hidden endotherm of Hummers' graphene oxide during low-temperature thermal reduction. <i>Carbon</i> , 2018, 138, 337-347.	10.3	33
20	Structure and Growth of Polymeric Niobia-Silica Mixed-Oxide Sols for Microporous Molecular Sieving Membranes: A SAXS Study. <i>Chemistry of Materials</i> , 2009, 21, 1822-1828.	6.7	28
21	Hydrophilicity and surface heterogeneity of TiO <sub>2</sub> -doped silica materials for membrane applications. <i>Microporous and Mesoporous Materials</i> , 2016, 221, 81-90.	4.4	28
22	Hydrothermal preparation of TiO <sub>2</sub> -graphene oxide ternary nanocomposite, characterization and photocatalytic degradation of bisphenol A under simulated solar irradiation. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105591.	4.0	28
23	Behavior and Properties in Aqueous Solution of Biopolymers Isolated from Urban Refuse. <i>Biomacromolecules</i> , 2010, 11, 3036-3042.	5.4	27
24	Carbon-based building blocks for alcohol dehydration membranes with disorder-enhanced water permeability. <i>Carbon</i> , 2017, 118, 458-466.	10.3	27
25	Mutual-stabilization in chemically bonded graphene oxide-TiO <sub>2</sub> heterostructures synthesized by a sol-gel approach. <i>RSC Advances</i> , 2017, 7, 41217-41227.	3.6	26
26	Preparation of templated mesoporous silica membranes on macroporous $\gamma$ -alumina supports via direct coating of thixotropic polymeric sols. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 173-182.	4.4	24
27	A Waste-Derived Biosurfactant for the Preparation of Templated Silica Powders. <i>ChemSusChem</i> , 2010, 3, 445-452.	6.8	24
28	Toward the effective design of steam-stable silica-based membranes. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 242-249.	4.4	21
29	Role of a waste-derived polymeric biosurfactant in the sol-gel synthesis of nanocrystalline titanium dioxide. <i>Ceramics International</i> , 2014, 40, 12161-12169.	4.8	21
30	Thermocatalytic membrane distillation for clean water production. <i>Npj Clean Water</i> , 2020, 3, .	8.0	18
31	Preparation of self-supporting mesostructured silica thin film membranes as gateable interconnects for microfluidics. <i>Journal of Membrane Science</i> , 2008, 323, 347-351.	8.2	16
32	Phenol Abatement by Titanium Dioxide Photocatalysts: Effect of The Graphene Oxide Loading. <i>Nanomaterials</i> , 2019, 9, 947.	4.1	16
33	Modeling water flux and salt rejection of mesoporous $\gamma$ -alumina and microporous organosilica membranes. <i>Journal of Membrane Science</i> , 2014, 470, 307-315.	8.2	14
34	Inorganic Membranes for the Recovery of Effluent from Municipal Wastewater Treatment Plants. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 3462-3472.	3.7	14
35	Tuning Porosity of Reduced Graphene Oxide Membrane Materials by Alkali Activation. <i>Nanomaterials</i> , 2020, 10, 2093.	4.1	14
36	A new polyfunctional acid material for solid state proton conductivity in dry environment: Nafion doped with difluoromethandiphosphonic acid. <i>Solid State Ionics</i> , 2010, 181, 578-585.	2.7	13

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37	Polymorph formation for a zeolitic imidazolate framework composition - Zn(Im) <sub>2</sub> . <i>Microporous and Mesoporous Materials</i> , 2018, 265, 57-62.	4.4	13
38	Kinetics of Strontium Carbonate Formation on a Ce-Doped SrFeO <sub>3</sub> Perovskite. <i>Catalysts</i> , 2022, 12, 265.	3.5	12
39	Ceramic Processing of Silicon Carbide Membranes with the Aid of Aluminum Nitrate Nonahydrate: Preparation, Characterization, and Performance. <i>Membranes</i> , 2021, 11, 714.	3.0	10
40	Sol-gel Synthesis of a Biotemplated Inorganic Photocatalyst: A Simple Experiment for Introducing Undergraduate Students to Materials Chemistry. <i>Journal of Chemical Education</i> , 2012, 89, 1466-1469.	2.3	9
41	Surfactant-Assisted Fabrication of Alumina-Doped Amorphous Silica Nanofiltration Membranes with Enhanced Water Purification Performances. <i>Nanomaterials</i> , 2019, 9, 1368.	4.1	9
42	Desalination of Groundwater from a Well in Puglia Region (Italy) by Al <sub>2</sub> O <sub>3</sub> -Doped Silica and Polymeric Nanofiltration Membranes. <i>Nanomaterials</i> , 2020, 10, 1738.	4.1	9
43	Potential of nanofiltration technology in recirculating aquaculture systems in a context of circular economy. <i>Chemical Engineering Journal Advances</i> , 2022, 10, 100269.	5.2	9
44	Clarifying the gel-to-glass transformation in Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> systems. <i>Journal of Non-Crystalline Solids</i> , 2018, 492, 77-83.	3.1	8
45	Electroviscous Effects in Ceramic Nanofiltration Membranes. <i>ChemPhysChem</i> , 2015, 16, 3397-3407.	2.1	7
46	Comparison of Chemical Cross-Linkers with Branched and Linear Molecular Structures for Stabilization of Graphene Oxide Membranes and Their Performance in Ethanol Dehydration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 18788-18797.	3.7	6
47	Combined Nanofiltration and Thermocatalysis for the Simultaneous Degradation of Micropollutants, Fouling Mitigation and Water Purification. <i>Membranes</i> , 2021, 11, 639.	3.0	6
48	Abatement of oil residues from produced water using a thermocatalytic packed bed reactor. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106749.	6.7	6
49	Fabrication and Surface Interactions of Super-Hydrophobic Silicon Carbide for Membrane Distillation. <i>Nanomaterials</i> , 2019, 9, 1159.	4.1	5
50	Effect of Temperature and Branched Crosslinkers on Supported Graphene Oxide Pervaporation Membranes for Ethanol Dehydration. <i>Nanomaterials</i> , 2020, 10, 1571.	4.1	5
51	A thermocatalytic perovskite-graphene oxide nanofiltration membrane for water depollution. <i>Journal of Water Process Engineering</i> , 2022, 49, 102941.	5.6	5
52	Proton conductivity of poly(dialkyl)phosphazenes-phosphoric acid composites at low humidity. <i>Solid State Ionics</i> , 2007, 178, 1442-1450.	2.7	4
53	Protein helical structure enhancement in biocompatible fluoro-phosphonate-based nanoporous silica glasses assessed by circular dichroism spectroscopy. <i>International Journal of Nanotechnology</i> , 2011, 8, 471.	0.2	4
54	Bio-organics isolated from urban bio-refuse for the photodegradation of azo-dyes in aqueous solutions. <i>Desalination and Water Treatment</i> , 2012, 39, 308-315.	1.0	1

#	ARTICLE	IF	CITATIONS
55	Inorganic materials for upcoming water purification membranes. , 2020, , 117-140.		1
56	Graphene and graphene-oxide for enhancing the photocatalytic properties of materials. , 2021, , 385-396.		0
57	Urban wastes as sources of valuable chemicals for sustainable development: surfactants, dispersing polymers and polyelectrolytes of biological origin. International Journal of Sustainable Development and Planning, 2009, 4, 291-308.	0.7	0