

# Rigoberto Advincula

## List of Publications by Year in descending order

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105  
papers

6,498  
citations

76196

40  
h-index

69108

77  
g-index

105  
all docs

105  
docs citations

105  
times ranked

8048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient Oil/Water and brine Separations: Superhydrophobic hybrid isobornyl methacrylate coatings. Separation and Purification Technology, 2022, 278, 119365.	3.9	6
2	Highly thermally stable copolymers of epoxy and trifunctional polybenzoxazine. Materials Today Communications, 2022, 30, 102988.	0.9	1
3	Advancing flexible electronics and additive manufacturing. Japanese Journal of Applied Physics, 2022, 61, SE0803.	0.8	13
4	Mechanically and Thermally Enhanced 3D-Printed Photocurable Polymer Nanocomposites Containing Functionalized Chitin Nanowhiskers by Stereolithography. ACS Applied Polymer Materials, 2022, 4, 2513-2526.	2.0	18
5	On the optimized 3D printing and post-processing of PETG materials. MRS Communications, 2022, 12, 381-387.	0.8	12
6	On the Use of Surfactant-Complexed Chitosan for Toughening 3D Printed Polymethacrylate Composites. Macromolecular Materials and Engineering, 2021, 306, .	1.7	11
7	Core-Shell Gold Nanoparticle-Star Copolymer Composites with Gradient Transfer and Transport Properties: Toward Electro-Optical Sensors and Catalysis. ACS Applied Nano Materials, 2021, 4, 1394-1400.	2.4	6
8	Superhydrophobic 1/4-pillars via simple and scalable SLA 3D-printing: the stair-case effect and their wetting models. Soft Matter, 2021, 17, 7524-7531.	1.2	7
9	3D printing of biomedically relevant polymer materials and biocompatibility. MRS Communications, 2021, 11, 197-212.	0.8	50
10	High performance polymers for oil and gas applications. Reactive and Functional Polymers, 2021, 162, 104878.	2.0	50
11	Highly Recyclable, Mechanically Isotropic and Healable 3D-Printed Elastomers via Polyurea Vitrimers. , 2021, 3, 1095-1103.		44
12	Characterize traction-separation relation and interfacial imperfections by data-driven machine learning models. Scientific Reports, 2021, 11, 14330.	1.6	13
13	Harnessing autocatalytic reactions in polymerization and depolymerization. MRS Communications, 2021, 11, 377-390.	0.8	4
14	The potential of additively manufactured membranes for selective separation and capture of CO2. MRS Communications, 2021, 11, 391-401.	0.8	18
15	On the progress of 3D-printed hydrogels for tissue engineering. MRS Communications, 2021, 11, 539-553.	0.8	71
16	Post-Processing of 3D-Printed Polymers. Technologies, 2021, 9, 61.	3.0	85
17	Graphene oxide bifunctionalized with NH2/NH3+ and their outstanding-performance against corrosion. Applied Surface Science, 2021, 561, 150048.	3.1	24
18	On the additive manufacturing (3D printing) of viscoelastic materials and flow behavior: From composites to food manufacturing. Additive Manufacturing, 2021, 45, 102043.	1.7	30

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19	3D printing of metals using biodegradable cellulose hydrogel inks. Additive Manufacturing, 2021, 48, 102380.	1.7	15
20	Additively manufactured high-performance polymeric materials and their potential use in the oil and gas industry. MRS Communications, 2021, 11, 701-715.	0.8	15
21	3D printing for membrane separation, desalination and water treatment. Applied Materials Today, 2020, 18, 100486.	2.3	122
22	On the Effect of Ultralow Loading of Microwave-Assisted Bifunctionalized Graphene Oxide in Stereolithographic 3D-Printed Nanocomposites. ACS Applied Materials & Interfaces, 2020, 12, 49061-49072.	4.0	26
23	Additive manufacturing for COVID-19: Devices, materials, prospects, and challenges. MRS Communications, 2020, 10, 413-427.	0.8	74
24	A Dual Approach in Direct Ink Writing of Thermally Cured Shape Memory Rubber Toughened Epoxy. ACS Applied Polymer Materials, 2020, 2, 5492-5500.	2.0	27
25	4D Printing via an Unconventional Fused Deposition Modeling Route to High-Performance Thermosets. ACS Applied Materials & Interfaces, 2020, 12, 50052-50060.	4.0	52
26	Fluorine-Free Superhydrophobic Coatings: Rapid Fabrication and Highly Efficient Oil/Water Separation. Macromolecular Materials and Engineering, 2020, 305, 2000400.	1.7	5
27	Super-Anticorrosive Materials Based on Bifunctionalized Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2020, 12, 45254-45265.	4.0	30
28	3D-printing methacrylate/chitin nanowhiskers composites via stereolithography: Mechanical and thermal properties. Materials Today: Proceedings, 2020, 33, 1819-1824.	0.9	8
29	On the thermal processing and mechanical properties of 3D-printed polyether ether ketone. MRS Communications, 2019, 9, 1046-1052.	0.8	36
30	Advances in 3D printing of thermoplastic polymer composites and nanocomposites. Progress in Polymer Science, 2019, 98, 101162.	11.8	335
31	3D-printing and advanced manufacturing for electronics. Progress in Additive Manufacturing, 2019, 4, 245-267.	2.5	188
32	One-Step Fabrication of Superhydrophobic/Superoleophilic Electrodeposited Polythiophene for Oil and Water Separation. Macromolecular Materials and Engineering, 2019, 304, 1800722.	1.7	9
33	Mussel-Inspired Hydrogel Composite with Multi-Stimuli Responsive Behavior. Macromolecular Materials and Engineering, 2019, 304, 1800720.	1.7	13
34	Reprocessable 3D-Printed Conductive Elastomeric Composite Foams for Strain and Gas Sensing. ACS Applied Polymer Materials, 2019, 1, 885-892.	2.0	87
35	3D Printed Multifunctional, Hyperelastic Silicone Rubber Foam. Advanced Functional Materials, 2019, 29, 1900469.	7.8	122
36	3D Printing of a Robust Polyamide-Carbon Black Composite via Selective Laser Sintering: Thermal and Electrical Conductivity. Macromolecular Materials and Engineering, 2019, 304, 1800718.	1.7	67

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37	Three-dimensional-printed molds and materials for injection molding and rapid tooling applications. MRS Communications, 2019, 9, 1267-1283.	0.8	52
38	Continuous Flow Fabrication of Block Copolymer-Grafted Silica Micro-Particles in Environmentally Friendly Water/Ethanol Media. Macromolecular Materials and Engineering, 2019, 304, 1800451.	1.7	5
39	Thermo-mechanical and swelling properties of three-dimensional-printed poly (ethylene glycol) diacrylate/silica nanocomposites. MRS Communications, 2019, 9, 209-217.	0.8	44
40	Role of Surface Tension in Gas Nanobubble Stability Under Ultrasound. ACS Applied Materials & Interfaces, 2018, 10, 9949-9956.	4.0	52
41	Mechanically Robust, Ultraelastic Hierarchical Foam with Tunable Properties via 3D Printing. Advanced Functional Materials, 2018, 28, 1800631.	7.8	128
42	Accommodating volume change and imparting thermal conductivity by encapsulation of phase change materials in carbon nanoparticles. Journal of Materials Chemistry A, 2018, 6, 2461-2467.	5.2	61
43	Mechanical characterization of 3D-printed polymers. Additive Manufacturing, 2018, 20, 44-67.	1.7	768
44	Polymer Nanosheet Containing Star-Like Copolymers: A Novel Scalable Controlled Release System. Small, 2018, 14, e1800115.	5.2	5
45	Plastic Metal-Free Electric Motor by 3D Printing of Graphene-Polyamide Powder. ACS Applied Energy Materials, 2018, 1, 1726-1733.	2.5	49
46	Superoleophilic and under-oil superhydrophobic organogel coatings for oil and water separation. Progress in Organic Coatings, 2018, 115, 122-129.	1.9	34
47	On the enhanced corrosion resistance of elastomer-modified polybenzoxazine/graphene oxide nanocomposite coatings. Reactive and Functional Polymers, 2018, 123, 10-19.	2.0	33
48	The pH dependent reactions of graphene oxide with small molecule thiols. RSC Advances, 2018, 8, 18388-18395.	1.7	9
49	Plasmonic Retrofitting of Membrane Materials: Shifting from Self-Regulation to On-Command Control of Fluid Flow. Advanced Materials, 2018, 30, 1707598.	11.1	10
50	High-Strength Stereolithographic 3D Printed Nanocomposites: Graphene Oxide Metastability. ACS Applied Materials & Interfaces, 2017, 9, 10085-10093.	4.0	138
51	Synthesizing a Trefoil Knotted Block Copolymer via Ring-Expansion Strategy. Macromolecules, 2017, 50, 1473-1481.	2.2	15
52	Simultaneous Reduction and Functionalization of Graphene Oxide via Ritter Reaction. ACS Applied Materials & Interfaces, 2017, 9, 14265-14272.	4.0	31
53	A Review on Rubber-Enhanced Polymeric Materials. Polymer Reviews, 2017, 57, 311-338.	5.3	47
54	Novel anti-corrosion coatings from rubber-modified polybenzoxazine-based polyaniline composites. Applied Surface Science, 2017, 422, 162-171.	3.1	60

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55	3D Printing of Polymer Nanocomposites via Stereolithography. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600553.	1.7	341
56	Highly efficient reversible addition-fragmentation chain-transfer polymerization in ethanol/water via flow chemistry. <i>Polymer International</i> , 2017, 66, 1252-1258.	1.6	8
57	Facile Preparation of Photocurable Siloxane Composite for 3D Printing. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600477.	1.7	38
58	3D Printing Biocompatible Polyurethane/Poly(lactic acid)/Graphene Oxide Nanocomposites: Anisotropic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4015-4023.	4.0	314
59	Superhydrophobic Rubber-Modified Polybenzoxazine/SiO <sub>2</sub> Nanocomposite Coating with Anticorrosion, Anti-Ice, and Superoleophilicity Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 1485-1497.	1.8	112
60	Electrospinning Superhydrophobic and Antibacterial PS/MWNT Nanofibers onto Multilayer Gas Barrier Films. <i>Macromolecular Symposia</i> , 2017, 374, 1600138.	0.4	11
61	3D Printing of Photocurable Cellulose Nanocrystal Composite for Fabrication of Complex Architectures via Stereolithography. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34314-34324.	4.0	210
62	Distinct Chemical and Physical Properties of Janus Nanosheets. <i>ACS Nano</i> , 2017, 11, 7485-7493.	7.3	79
63	Photoreduction of Graphene Oxide and Photochemical Synthesis of Graphene-Metal Nanoparticle Hybrids by Ketyl Radicals. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24887-24898.	4.0	32
64	Effect of the surfactant pluronic on the stability of lipid-stabilized perfluorocarbon nanobubbles. , 2017, , .		2
65	Utilizing Viral Nanoparticle/Dendron Hybrid Conjugates in Photodynamic Therapy for Dual Delivery to Macrophages and Cancer Cells. <i>Bioconjugate Chemistry</i> , 2016, 27, 1227-1235.	1.8	53
66	High performance polymer nanocomposites for additive manufacturing applications. <i>Reactive and Functional Polymers</i> , 2016, 103, 141-155.	2.0	321
67	Graphene Oxide-Poly(ethylene glycol) methyl ether methacrylate Nanocomposite Hydrogels. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 101-107.	1.1	12
68	Star-like copolymer stabilized noble-metal nanoparticle powders. <i>Nanoscale</i> , 2016, 8, 7435-7442.	2.8	14
69	Selective mono-facial modification of graphene oxide nanosheets in suspension. <i>Chemical Communications</i> , 2016, 52, 288-291.	2.2	34
70	On the antibacterial mechanism of graphene oxide (GO) Langmuir-Blodgett films. <i>Chemical Communications</i> , 2015, 51, 2886-2889.	2.2	232
71	Catenated Poly( $\epsilon$ -caprolactone) and Poly( $\epsilon$ -lactide) via Ring-Expansion Strategy. <i>Macromolecules</i> , 2015, 48, 3825-3833.	2.2	25
72	Photoswitchable Nanocarrier with Reversible Encapsulation Properties. <i>ACS Macro Letters</i> , 2015, 4, 58-62.	2.3	19

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73	Smart cements and cement additives for oil and gas operations. <i>Journal of Petroleum Science and Engineering</i> , 2015, 129, 63-76.	2.1	84
74	A Trefoil Knotted Polymer Produced through Ring Expansion. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5127-5131.	7.2	31
75	Inorganic-Organic Thiolene Coated Mesh for Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18566-18573.	4.0	89
76	Electrochemical fabrication of graphene nanomesh via colloidal templating. <i>Chemical Communications</i> , 2015, 51, 7629-7632.	2.2	8
77	Grafted Carbazole-Assisted Electrodeposition of Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10266-10274.	4.0	30
78	Polymeric catenanes synthesized via click-chemistry and atom transfer radical coupling. <i>Chemical Communications</i> , 2015, 51, 7528-7531.	2.2	13
79	Stimuli-Responsive Polymers and their Potential Applications in Oil-Gas Industry. <i>Polymer Reviews</i> , 2015, 55, 706-733.	5.3	60
80	Reversible Superhydrophilicity and Superhydrophobicity on a Lotus-Leaf Pattern. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22666-22672.	4.0	49
81	Cyclic poly(vinylcarbazole) via ring-expansion polymerization-RAFT (REP-RAFT). <i>Reactive and Functional Polymers</i> , 2014, 80, 33-39.	2.0	24
82	Tunable electroluminescence properties in CdSe/PVK guest-host based light-emitting devices. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8589.	1.3	13
83	On the Formation and Electropolymerization of a Star Copolymer With Peripheral Carbazoles. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 386-395.	1.1	8
84	Tunable Protein and Bacterial Cell Adsorption on Colloidally Templated Superhydrophobic Polythiophene Films. <i>Chemistry of Materials</i> , 2012, 24, 870-880.	3.2	122
85	A supramolecularly templated catenane initiator and a controlled ring expansion strategy. <i>Chemical Communications</i> , 2012, 48, 12094.	2.2	20
86	Superhydrophobic Colloidally Textured Polythiophene Film as Superior Anticorrosion Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3169-3176.	4.0	172
87	Electropolymerized and polymer grafted superhydrophobic, superoleophilic, and hemi-wicking coatings. <i>Journal of Materials Chemistry</i> , 2012, 22, 11025.	6.7	23
88	Capsulation of carbon nanotubes on top of colloidally templated and electropolymerized polythiophene arrays. <i>Chemical Communications</i> , 2011, 47, 8871.	2.2	7
89	Nanostructuring polymers, colloids, and nanomaterials at the air-water interface through Langmuir and Langmuir-Blodgett techniques. <i>Soft Matter</i> , 2011, 7, 9829.	1.2	80
90	Hybrid Semiconductor Nanoparticles: $\pi$ -Conjugated Ligands and Nanostructured Films. <i>Chemistry of Materials</i> , 2011, 23, 4273-4294.	3.2	44

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91	Polymer catenanes via a supramolecularly templated ATRP initiator. <i>Chemical Communications</i> , 2011, 47, 9173.	2.2	21
92	Hybrid CdSe dendron nanoparticle and polymer blend knodels at the interface. <i>Soft Matter</i> , 2011, 7, 5124.	1.2	1
93	Superhydrophobic Superoleophilic Polythiophene Films with Tunable Wetting and Electrochromism. <i>Advanced Materials</i> , 2011, 23, 3207-3213.	11.1	90
94	Hybrid Gold Nanoparticle-Cored Conjugated Thiophene Dendrimers: Synthesis, Characterization, and Energy Transfer Studies. <i>Chemistry - A European Journal</i> , 2011, 17, 8929-8940.	1.7	23
95	Redox nanoreactor dendrimer boxes: in situ hybrid gold nanoparticles via terthiophene and carbazole peripheral dendrimer oxidation. <i>Soft Matter</i> , 2010, 6, 5316.	1.2	21
96	Nanostructured Electrooptically Active Smart Coatings Based on Conjugated Polymer Networks: Precursor Polymer Approach, Devices, and Nanopatterning. <i>ACS Symposium Series</i> , 2009, , 158-177.	0.5	0
97	Nanostructured Conjugated Polymer Network Ultrathin Films and Coatings Using the Precursor Polymer Approach. <i>ACS Symposium Series</i> , 2009, , 51-61.	0.5	1
98	Hybrid CdSe Nanoparticle-Carbazole Dendron Boxes: Electropolymerization and Energy Transfer Mechanism Shift. <i>Advanced Functional Materials</i> , 2008, 18, 2071-2078.	7.8	31
99	Investigating Carbazole Jacketed Precursor Dendrimers: Sonochemical Synthesis, Characterization, and Electrochemical Crosslinking Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 12537-12548.	6.6	83
100	Electro-Copolymerization of Layer-by-Layer Deposited Polythiophene and Polycarbazole Precursor Ultrathin Films. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1522-1527.	2.0	26
101	Hybrid organic-inorganic nanomaterials based on polythiophene dendronized nanoparticles. <i>Dalton Transactions</i> , 2006, , 2778-2784.	1.6	70
102	A Facile Synthesis Route to Thiol-Functionalized $\pm 1\%$ -Telechelic Polymers via Reversible Addition Fragmentation Chain Transfer Polymerization. <i>Macromolecules</i> , 2005, 38, 8597-8602.	2.2	134
103	3D Printed Injection Molds Using Various 3D Printing Technologies. <i>Materials Science Forum</i> , 0, 1005, 150-156.	0.3	24
104	3D-Printing for Cube Satellites (CubeSats): Philippines Perspectives. , 0, 1, 13-27.		1
105	3D Printed Parahydrophobic Surfaces as Multireaction Platforms. <i>Langmuir</i> , 0, , .	1.6	3