

Frédéric Vidal

List of Publications by Year in descending order

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141
papers

3,658
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101384

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docs citations

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times ranked

3533
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Graphitic carbon nitride nanosheet electrode-based high-performance ionic actuator. <i>Nature Communications</i> , 2015, 6, 7258. | 5.8 | 211 |
| 2 | Long-life air working conducting semi-IPN/ionic liquid based actuator. <i>Synthetic Metals</i> , 2004, 142, 287-291. | 2.1 | 154 |
| 3 | Piezoionic mechanoreceptors: Force-induced current generation in hydrogels. <i>Science</i> , 2022, 376, 502-507. | 6.0 | 128 |
| 4 | Design and synthesis of new anionic "polymeric ionic liquids" with high charge delocalization. <i>Polymer Chemistry</i> , 2011, 2, 2609. | 1.9 | 96 |
| 5 | Demonstrating kHz Frequency Actuation for Conducting Polymer Microactuators. <i>Advanced Functional Materials</i> , 2014, 24, 4851-4859. | 7.8 | 96 |
| 6 | Breaking the symmetry of dibenzoxazines: a paradigm to tailor the design of bio-based thermosets. <i>Green Chemistry</i> , 2016, 18, 3346-3353. | 4.6 | 94 |
| 7 | Flexible Solid Polymer Electrolytes Based on Nitrile Butadiene Rubber/Poly(ethylene oxide) Interpenetrating Polymer Networks Containing Either LiTFSI or EMITFSI. <i>Macromolecules</i> , 2011, 44, 9683-9691. | 2.2 | 88 |
| 8 | Synthesis and characterization of conducting interpenetrating polymer networks for new actuators. <i>Polymer</i> , 2005, 46, 7771-7778. | 1.8 | 84 |
| 9 | Polymeric Ionic Liquids: Comparison of Polycations and Polyanions. <i>Macromolecules</i> , 2011, 44, 9792-9803. | 2.2 | 84 |
| 10 | Bis(trifluoromethylsulfonyl)amide based "polymeric ionic liquids": Synthesis, purification and peculiarities of structure-properties relationships. <i>Electrochimica Acta</i> , 2011, 57, 74-90. | 2.6 | 84 |
| 11 | Robust solid polymer electrolyte for conducting IPN actuators. <i>Smart Materials and Structures</i> , 2013, 22, 104005. | 1.8 | 79 |
| 12 | In search of better electroactive polymer actuator materials: PPy versus PEDOT versus PEDOT-PPy composites. <i>Smart Materials and Structures</i> , 2013, 22, 104006. | 1.8 | 76 |
| 13 | A first truly all-solid state organic electrochromic device based on polymeric ionic liquids. <i>Chemical Communications</i> , 2014, 50, 3191-3193. | 2.2 | 68 |
| 14 | Ionic electroactive polymer artificial muscles in space applications. <i>Scientific Reports</i> , 2014, 4, 6913. | 1.6 | 64 |
| 15 | Stretchable composite monolayer electrodes for low voltage dielectric elastomer actuators. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 135-143. | 4.0 | 64 |
| 16 | Conducting IPN actuators: From polymer chemistry to actuator with linear actuation. <i>Synthetic Metals</i> , 2006, 156, 1299-1304. | 2.1 | 62 |
| 17 | Feasibility of conducting semi-interpenetrating networks based on a poly(ethylene oxide) network and poly(3,4-ethylenedioxythiophene) in actuator design. <i>Journal of Applied Polymer Science</i> , 2003, 90, 3569-3577. | 1.3 | 61 |
| 18 | Conducting interpenetrating polymer network sized to fabricate microactuators. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Self-supported semi-interpenetrating polymer networks for new design of electrochromic devices. <i>Electrochimica Acta</i> , 2008, 53, 4336-4343. | 2.6 | 58 |
| 20 | Truly solid state electrochromic devices constructed from polymeric ionic liquids as solid electrolytes and electrodes formulated by vapor phase polymerization of 3,4-ethylenedioxythiophene. <i>Polymer</i> , 2014, 55, 3385-3396. | 1.8 | 57 |
| 21 | Ionic IPNs as novel candidates for highly conductive solid polymer electrolytes. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4245-4266. | 2.5 | 56 |
| 22 | Electro-active Interpenetrating Polymer Networks actuators and strain sensors: Fabrication, position control and sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 82-88. | 4.0 | 52 |
| 23 | Poly(ethylene oxide)/polybutadiene based IPNs synthesis and characterization. <i>Polymer</i> , 2007, 48, 696-703. | 1.8 | 50 |
| 24 | Conducting polymer artificial muscle fibres: toward an open air linear actuation. <i>Chemical Communications</i> , 2010, 46, 2910. | 2.2 | 50 |
| 25 | Ionic liquids and γ -butyrolactone mixtures as electrolytes for supercapacitors operating over extended temperature ranges. <i>RSC Advances</i> , 2015, 5, 13095-13101. | 1.7 | 50 |
| 26 | Ionic semi-interpenetrating networks as a new approach for highly conductive and stretchable polymer materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2188-2198. | 5.2 | 47 |
| 27 | Synthesis and properties of polymeric analogs of ionic liquids. <i>Polymer Science - Series B</i> , 2013, 55, 122-138. | 0.3 | 46 |
| 28 | Polydimethylsiloxane-cellulose acetate butyrate interpenetrating polymer networks synthesis and kinetic study. Part I. <i>Polymer</i> , 2005, 46, 37-47. | 1.8 | 45 |
| 29 | Highly Conductive, Photolithographically Patternable Ionogels for Flexible and Stretchable Electrochemical Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21601-21611. | 4.0 | 45 |
| 30 | Smarter Actuator Design with Complementary and Synergetic Functions. <i>Advanced Materials</i> , 2015, 27, 4418-4422. | 11.1 | 44 |
| 31 | Top-down Approach for the Direct Synthesis, Patterning, and Operation of Artificial Micromuscles on Flexible Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1559-1564. | 4.0 | 41 |
| 32 | Thin ink-jet printed trilayer actuators composed of PEDOT:PSS on interpenetrating polymer networks. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 1072-1079. | 4.0 | 40 |
| 33 | Self-standing single lithium ion conductor polymer network with pendant trifluoromethanesulfonylimide groups: Li ⁺ diffusion coefficients from PFGSTE NMR. <i>European Polymer Journal</i> , 2013, 49, 4108-4117. | 2.6 | 39 |
| 34 | Electrochemical characterisations and ageing of ionic liquid/ γ -butyrolactone mixtures as electrolytes for supercapacitor applications over a wide temperature range. <i>Journal of Power Sources</i> , 2017, 359, 242-249. | 4.0 | 39 |
| 35 | Poly(3,4-ethylenedioxythiophene):Poly(styrene sulfonate)/Polyethylene Oxide Electrodes with Improved Electrical and Electrochemical Properties for Soft Microactuators and Microsensors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800948. | 2.6 | 39 |
| 36 | Poly(3,4-ethylenedioxythiophene)-containing semi-interpenetrating polymer networks: a versatile concept for the design of optical or mechanical electroactive devices. <i>Polymer International</i> , 2010, 59, 313-320. | 1.6 | 38 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Photopolymerization of poly(ethylene glycol) dimethacrylates: The influence of ionic liquids on the formulation and the properties of the resultant polymer materials. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2388-2409. | 2.5 | 36 |
| 38 | Polyethylene oxide-polytetrahydrofurane-PEDOT conducting interpenetrating polymer networks for high speed actuators. <i>Smart Materials and Structures</i> , 2011, 20, 124002. | 1.8 | 36 |
| 39 | Synthesis, polymerization and conducting properties of an ionic liquid-type anionic monomer. <i>Tetrahedron Letters</i> , 2009, 50, 128-131. | 0.7 | 35 |
| 40 | A comprehensive study of infrared reflectivity of poly(3,4-ethylenedioxythiophene) model layers with different morphologies and conductivities. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 141-151. | 3.0 | 34 |
| 41 | Feasibility of conducting semi-IPN with variable electro-emissivity: A promising way for spacecraft thermal control. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 116-122. | 3.0 | 32 |
| 42 | Synthesis and characterization of interpenetrating networks from polycarbonate and cellulose acetate butyrate. <i>Polymer</i> , 2004, 45, 5047-5055. | 1.8 | 29 |
| 43 | Electrospun rubber fibre mats with electrochemically controllable pore sizes. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4249-4258. | 2.9 | 29 |
| 44 | Self-contained tubular bending actuator driven by conducting polymers. <i>Sensors and Actuators A: Physical</i> , 2016, 249, 45-56. | 2.0 | 29 |
| 45 | Semi-interpenetrating polymer networks based on modified cellulose and poly(3,4-ethylenedioxythiophene). <i>Synthetic Metals</i> , 2002, 128, 197-204. | 2.1 | 27 |
| 46 | Self-standing gel polymer electrolyte for improving supercapacitor thermal and electrochemical stability. <i>Journal of Power Sources</i> , 2018, 391, 86-93. | 4.0 | 27 |
| 47 | Synthesis of novel families of conductive cationic poly(ionic liquid)s and their application in all-polymer flexible pseudo-supercapacitors. <i>Electrochimica Acta</i> , 2018, 281, 777-788. | 2.6 | 26 |
| 48 | Tailorable, 3D structured and micro-patternable ionogels for flexible and stretchable electrochemical devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 256-266. | 2.7 | 26 |
| 49 | New Prospects in the Conception of IR Electro-Tunable Devices: The Use of Conducting Semi-Interpenetrating Polymer Network Architecture. <i>Chemistry of Materials</i> , 2010, 22, 4539-4547. | 3.2 | 25 |
| 50 | Reactive surfactants in heterophase polymerization for high performance polymers. <i>Colloid and Polymer Science</i> , 1998, 276, 402-411. | 1.0 | 23 |
| 51 | Polysiloxane-Cellulose acetate butyrate cellulose interpenetrating polymers networks close to true IPNs on a large composition range. Part II. <i>Polymer</i> , 2006, 47, 3747-3753. | 1.8 | 23 |
| 52 | Ultrathin electrochemically driven conducting polymer actuators: fabrication and electrochemomechanical characterization. <i>Electrochimica Acta</i> , 2018, 265, 670-680. | 2.6 | 23 |
| 53 | Interpenetrating Polymer Networks from Polymeric Imidazolium-type Ionic Liquid and polybutadiene. <i>Polymer Bulletin</i> , 2006, 57, 473-480. | 1.7 | 22 |
| 54 | Solid-state electrolytes based on ionic network polymers. <i>Polymer Science - Series B</i> , 2014, 56, 164-177. | 0.3 | 22 |

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|----|--|-----|-----------|
| 55 | Linear Artificial Muscle Based on Ionic Electroactive Polymer: A Rational Design for Open-Air and Vacuum Actuation. <i>Advanced Materials Technologies</i> , 2019, 4, 1800519. | 3.0 | 22 |
| 56 | Polybutadiene/poly(ethylene oxide) based IPNs, Part II: Mechanical modelling and LiClO ₄ loading as tools for IPN morphology investigation. <i>Polymer</i> , 2007, 48, 7476-7483. | 1.8 | 21 |
| 57 | Thermal ageing of poly(ethylene oxide)/poly(3,4-ethylenedioxythiophene) semi-IPNs. <i>European Polymer Journal</i> , 2008, 44, 3864-3870. | 2.6 | 21 |
| 58 | Probing the effect of anion structure on the physical properties of cationic 1,2,3-triazolium-based poly(ionic liquid)s. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2191-2199. | 2.5 | 21 |
| 59 | Study of the piezoionic effect and influence of electrolyte in conducting polymer based soft strain sensors. <i>Multifunctional Materials</i> , 2019, 2, 045002. | 2.4 | 21 |
| 60 | Surfactants with transfer agent properties (transurfs) in styrene emulsion polymerization. <i>Colloid and Polymer Science</i> , 1995, 273, 999-1007. | 1.0 | 19 |
| 61 | Symmetrical electrochromic device from poly(3,4-(2,2-dimethylpropylenedioxy)thiophene)-based semi-interpenetrating polymer network. <i>Synthetic Metals</i> , 2012, 162, 1903-1911. | 2.1 | 19 |
| 62 | Thiol-ene Click Chemistry as a Tool for a Novel Family of Polymeric Ionic Liquids. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1359-1369. | 1.1 | 19 |
| 63 | Electropolymerization of 3,4-ethylenedioxythiophene within an insulating nitrile butadiene rubber network: Application to electroreflective surfaces and devices. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 109-115. | 3.0 | 18 |
| 64 | Elaboration of bio-epoxy/benzoxazine interpenetrating polymer networks: a composition-to-morphology mapping. <i>Polymer Chemistry</i> , 2018, 9, 472-481. | 1.9 | 18 |
| 65 | Synthesis and characterization of p and n doped interpenetrating polymer networks for organic photovoltaic devices. <i>Thin Solid Films</i> , 2008, 516, 7223-7229. | 0.8 | 17 |
| 66 | Soft and flexible Interpenetrating Polymer Networks hosting electroreflective poly(3,4-ethylenedioxythiophene). <i>Solar Energy Materials and Solar Cells</i> , 2014, 127, 33-42. | 3.0 | 17 |
| 67 | Investigations of ionic liquids on the infrared electroreflective properties of poly(3,4-ethylenedioxythiophene). <i>Solar Energy Materials and Solar Cells</i> , 2018, 177, 23-31. | 3.0 | 17 |
| 68 | Long-Life Air Working Semi-IPN/Ionic Liquid: New Precursor of Artificial Muscles. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 448, 95/[697]-102/[704]. | 0.4 | 15 |
| 69 | Synthesis and luminescent properties of PEO/lanthanide oxide nanoparticle hybrid films. <i>Journal of Luminescence</i> , 2007, 126, 289-296. | 1.5 | 15 |
| 70 | Self-supported semi-interpenetrating polymer networks as reactive ambient sensors. <i>Journal of Electroanalytical Chemistry</i> , 2011, 652, 37-43. | 1.9 | 15 |
| 71 | Non-ionic thiol-ended surfactants. <i>Polymer Bulletin</i> , 1995, 35, 1-7. | 1.7 | 14 |
| 72 | Steric stabilization of polystyrene colloids using thiol-ended polyethylene oxide. <i>Polymers for Advanced Technologies</i> , 1995, 6, 473-479. | 1.6 | 14 |

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|----|--|-----|-----------|
| 73 | Thermal regulation of satellites using adaptive polymeric materials. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110035. | 3.0 | 13 |
| 74 | Asymmetric PEDOT:PSS Trilayers as Actuating and Sensing Linear Artificial Muscles. <i>Advanced Materials Technologies</i> , 2021, 6, 2001063. | 3.0 | 12 |
| 75 | Actuation and Sensing properties of Electroactive Polymer Whiskers. <i>Procedia Computer Science</i> , 2011, 7, S4-S7. | 1.2 | 11 |
| 76 | Influence of the poly(ethylene oxide)/polybutadiene IPN morphology on the ionic conductivity of ionic liquid. <i>European Polymer Journal</i> , 2013, 49, 2670-2679. | 2.6 | 11 |
| 77 | Transparent stretchable capacitive touch sensor grid using ionic liquid electrodes. <i>Extreme Mechanics Letters</i> , 2019, 33, 100574. | 2.0 | 11 |
| 78 | Characterization and dynamic charge dependent modeling of conducting polymer trilayer bending. <i>Smart Materials and Structures</i> , 2016, 25, 115044. | 1.8 | 10 |
| 79 | Nonlinear dynamic modeling of ultrathin conducting polymer actuators including inertial effects. <i>Smart Materials and Structures</i> , 2018, 27, 115032. | 1.8 | 10 |
| 80 | Synthesis and Characterization of IPNs for Electrochemical Actuators. <i>Advances in Science and Technology</i> , 0, , . | 0.2 | 9 |
| 81 | Electroactive Polymers with Semi-IPN Architectures for Electrochromic Devices. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 522, 53/[353]-60/[360]. | 0.4 | 9 |
| 82 | Microemulsion as the template for synthesis of interpenetrating polymer networks with predefined structure. <i>Polymer</i> , 2013, 54, 4436-4445. | 1.8 | 9 |
| 83 | Nanostructured Thermal Responsive Materials Synthesized by Soft Templating. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12706-12718. | 4.0 | 9 |
| 84 | Impermeable and Compliant: SIBS as a Promising Encapsulant for Ionically Electroactive Devices. <i>Robotics</i> , 2019, 8, 60. | 2.1 | 9 |
| 85 | Determination of transfer constants of non-ionic thiolended surfactants (transurfs) in styrene free-radical polymerizations. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 1835-1840. | 1.1 | 8 |
| 86 | Solid state dye-sensitized solar cells based on polymeric ionic liquid with free imidazolium cation. <i>Electronic Materials Letters</i> , 2014, 10, 209-212. | 1.0 | 8 |
| 87 | Synergetic PEDOT degradation during a reactive ion etching process. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 635-645. | 4.0 | 8 |
| 88 | Ion Transport in Polymer Composites with Non-Uniform Distributions of Electronic Conductors. <i>Electrochimica Acta</i> , 2017, 247, 149-162. | 2.6 | 8 |
| 89 | Interpenetrating polymer network (IPN) as tool for tuning electromechanical properties of electrochemical actuator operating in open-air. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 294-303. | 4.0 | 8 |
| 90 | Polymeric ionic liquid based interpenetrating polymer network for all-solid self-standing polyelectrolyte material. <i>European Polymer Journal</i> , 2018, 106, 257-265. | 2.6 | 8 |

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|-----|---|-----|-----------|
| 91 | Inifer surfactants in emulsion polymerization. <i>Polymer Bulletin</i> , 1995, 34, 569-576. | 1.7 | 7 |
| 92 | Symmetric Versus Asymmetric di-Bz Monomer Design. , 2017, , 89-107. | | 7 |
| 93 | Lithium-based oligomer ionic liquid for solvent-free conducting materials. <i>Polymer</i> , 2018, 142, 337-347. | 1.8 | 7 |
| 94 | Fabrication of bicontinuous double networks as thermal and pH stimuli responsive drug carriers for on-demand release. <i>Materials Science and Engineering C</i> , 2020, 109, 110495. | 3.8 | 7 |
| 95 | Electro-interpenetration as tool for high strain trilayer conducting polymer actuator. <i>Smart Materials and Structures</i> , 2021, 30, 025041. | 1.8 | 7 |
| 96 | Symmetrical Electrochromic and Electroemissive Devices from Semi-Interpenetrating Polymer Networks. <i>Advances in Science and Technology</i> , 0, , . | 0.2 | 6 |
| 97 | Conducting IPN Fibers: A New Design for Linear Actuation in Open Air. <i>Advances in Science and Technology</i> , 0, , . | 0.2 | 6 |
| 98 | Conducting IPN actuators for biomimetic vision system. <i>Proceedings of SPIE</i> , 2011, , . | 0.8 | 6 |
| 99 | Nanostructure Changes upon Polymerization of Aqueous and Organic Phases in Organized Mixtures. <i>Langmuir</i> , 2016, 32, 10104-10112. | 1.6 | 6 |
| 100 | Nonlinear Two-Dimensional Transmission Line Models for Electrochemically Driven Conducting Polymer Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 705-716. | 3.7 | 6 |
| 101 | Linear finite-difference bond graph model of an ionic polymer actuator. <i>Smart Materials and Structures</i> , 2017, 26, 095055. | 1.8 | 6 |
| 102 | Ionofibers: Ionically Conductive Textile Fibers for Conformal iâ€¢Textiles. <i>Advanced Materials Technologies</i> , 2022, 7, . | 3.0 | 6 |
| 103 | IR Reflectivity Change from Electroactive IPN. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 554, 95-102. | 0.4 | 5 |
| 104 | PEDOT Based Conducting IPN Actuators: Effects of Electrolyte on Actuation. <i>Advances in Science and Technology</i> , 0, , . | 0.2 | 5 |
| 105 | Tailoring Electromechanical Properties of Natural Rubber Vitrimers by Cross-Linkers. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8871-8880. | 1.8 | 5 |
| 106 | Photopolymerizable Ionogel with Healable Properties Based on Dioxaborolane Vitrimer Chemistry. <i>Gels</i> , 2022, 8, 381. | 2.1 | 5 |
| 107 | Actuator based on poly(3,4-ethylenedioxythiophene)/PEO/elastomer IPNs. , 2004, , . | | 4 |
| 108 | Characterization of a new interpenetrated network conductive polymer (IPN-CP) as a potential actuator that works in air conditions. , 0, , . | | 4 |

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|-----|---|-----|-----------|
| 109 | Patterning process and actuation in open air of micro-beam actuator based on conducting IPNs. Proceedings of SPIE, 2012, , . | 0.8 | 4 |
| 110 | Understanding the colorimetric properties of quinoxaline-based pi-conjugated copolymers by tuning their acceptor strength: a joint theoretical and experimental approach. RSC Advances, 2017, 7, 22311-22319. | 1.7 | 4 |
| 111 | Microfabricated PEDOT trilayer actuators: synthesis, characterization, and modeling. , 2017, , . | | 4 |
| 112 | Conducting interpenetrating polymer network to sense and actuate: Measurements and modeling. Sensors and Actuators A: Physical, 2018, 272, 325-333. | 2.0 | 4 |
| 113 | Printed PEDOT:PSS Trilayer: Mechanism Evaluation and Application in Energy Storage. Materials, 2020, 13, 491. | 1.3 | 4 |
| 114 | PEDOT:PSS-based micromuscles and microsensors fully integrated in flexible chips. Smart Materials and Structures, 2020, 29, 09LT01. | 1.8 | 4 |
| 115 | <title>Actuators based on conducting poly(3,4-ethylenedioxythiophene)/PEO semi-IPN</title> . , 2002, , . | | 3 |
| 116 | Fabrication and characterization of linear-moving in air ionic polymer actuators with design and motion simulation tools. , 2006, 6168, 333. | | 3 |
| 117 | Dispersion of Luminescent Nanoparticles in Different Derivatives of Poly(ethyl methacrylate). Journal of Nanoscience and Nanotechnology, 2011, 11, 3208-3214. | 0.9 | 3 |
| 118 | Electroactive semi-interpenetrating polymer networks architecture with tunable IR reflectivity. , 2011, , . | | 3 |
| 119 | Nuclear Magnetic Resonance (NMR) Characterization of a Polymerized Ionic Liquid Electrolyte Material. Materials Research Society Symposia Proceedings, 2012, 1440, 31. | 0.1 | 3 |
| 120 | Polysiloxane Based Interpenetrating Polymer Networks: synthesis and Properties. , 2008, , 19-28. | | 3 |
| 121 | New design methods and simulation of linear actuators using ionic polymers. , 2005, , . | | 2 |
| 122 | Electrochemical cross-linking of carbazole derivatives: a new route for bulk heterojunction based on semi-interpenetrating polymer networks. EPJ Applied Physics, 2007, 37, 271-275. | 0.3 | 2 |
| 123 | Thermal Control of Satellites by Polymer-based Electro-Emissive Device in Infrared Spectra: Component Design and Ground Thermal Testing. , 2011, , . | | 2 |
| 124 | Conducting IPN actuator/sensor for biomimetic vibrissa system. Proceedings of SPIE, 2014, , . | 0.8 | 2 |
| 125 | Patterning innovative conducting interpenetrating polymer network by dry etching. , 2014, , . | | 2 |
| 126 | High speed electromechanical response of ionic microactuators. Proceedings of SPIE, 2015, , . | 0.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Evaluating performance of wet unencapsulated PEDOT trilayer actuators operating in air and water. Multifunctional Materials, 2019, 2, 014003. | 2.4 | 2 |
| 128 | All-solid state ionic actuators based on polymeric ionic liquids and electronic conducting polymers. , 2018, , . | | 2 |
| 129 | Molecular dynamics studies of interpenetrating polymer networks for actuator devices. , 2008, , . | | 1 |
| 130 | Electromechanically active polymer transducers: research in Europe. Smart Materials and Structures, 2013, 22, 100301. | 1.8 | 1 |
| 131 | Stacking trilayers to increase force generation. , 2015, , . | | 1 |
| 132 | An embedded system to control conducting interpenetrating polymer networks actuators. , 2016, , . | | 1 |
| 133 | Conducting Polymers as EAPs: How to Start Experimenting with Them. , 2016, , 413-436. | | 1 |
| 134 | Active Thermal Control of Satellites with Electroactive Materials. , 2022, , 221-254. | | 1 |
| 135 | Réseaux interpénétrés électrocommandables pour l'actionnement et l'électrochromisme. Matériaux Et Techniques, 2009, 97, 51-57. | 0.3 | 1 |
| 136 | Conducting IPNs and Ionic Liquids: Applications to Electroactive Polymer Devices. , 2015, , 297-321. | | 1 |
| 137 | Micro-beam actuator based on conducting interpenetrating polymer networks: From patterning process to actuation in open air. , 2011, , . | | 0 |
| 138 | Conducting interpenetrating polymer networks actuators for biomimetic vision system. , 2015, , 163-179. | | 0 |
| 139 | Conducting Polymers as EAPs: How to Start Experimenting with Them. , 2016, , 1-25. | | 0 |
| 140 | Behavior of ionic conducting IPN actuators in simulated space conditions. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 141 | Toward electroactive catheter design using conducting interpenetrating polymer networks actuators. , 2018, , . | | 0 |