

Roberto Pantani

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151 papers	3,195 citations	28 h-index	50 g-index
176 ext. papers	3,773 ext. citations	3.5 avg, IF	5.78 L-index

#	Paper	IF	Citations
151	Modeling of morphology evolution in the injection molding process of thermoplastic polymers. <i>Progress in Polymer Science</i> , 2005 , 30, 1185-1222	29.6	193
150	PLA-ZnO nanocomposite films: Water vapor barrier properties and specific end-use characteristics. <i>European Polymer Journal</i> , 2013 , 49, 3471-3482	5.2	176
149	Effect of PLA grades and morphologies on hydrolytic degradation at composting temperature: Assessment of structural modification and kinetic parameters. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1006-1014	4.7	166
148	Influence of crystallinity on the biodegradation rate of injection-moulded poly(lactic acid) samples in controlled composting conditions. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1089-1096	4.7	145
147	Crystallization kinetics and solidified structure in iPP under high cooling rates. <i>Polymer</i> , 2003 , 44, 307-313	3.9	104
146	PLA/Halloysite Nanocomposite Films: Water Vapor Barrier Properties and Specific Key Characteristics. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 104-115	3.9	103
145	Crystallization kinetics of virgin and processed poly(lactic acid). <i>Polymer Degradation and Stability</i> , 2010 , 95, 1148-1159	4.7	103
144	Shear-Induced Nucleation and Growth in Isotactic Polypropylene. <i>Macromolecules</i> , 2010 , 43, 9030-9038	5.5	90
143	Nucleation and crystallization kinetics of poly(lactic acid). <i>Thermochimica Acta</i> , 2011 , 522, 128-134	2.9	83
142	Thermal and hydrolytic degradation kinetics of PLA in the molten state. <i>Polymer Degradation and Stability</i> , 2014 , 100, 37-41	4.7	81
141	Morphology evolution during injection molding: Effect of packing pressure. <i>Polymer</i> , 2007 , 48, 2778-2790	3.9	69
140	Effective de-icing skin using graphene-based flexible heater. <i>Composites Part B: Engineering</i> , 2019 , 162, 600-610	10	63
139	Spherulitic Nucleation and Growth Rates in an iPP under Continuous Shear Flow. <i>Macromolecules</i> , 2008 , 41, 9214-9223	5.5	58
138	As-molded shrinkage measurements on polystyrene injection molded products. <i>Polymer Engineering and Science</i> , 1998 , 38, 254-264	2.3	52
137	Foam injection molding of poly(lactic acid) with environmentally friendly physical blowing agents. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 3098-3107	5.3	48
136	Analysis of Shrinkage Development of a Semicrystalline Polymer during Injection Molding. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2469-2476	3.9	45
135	Molecular orientation in injection molding: experiments and analysis. <i>Rheologica Acta</i> , 2004 , 43, 109-118	2.3	45

134	FTIR analysis of hydrolysis in aliphatic polyesters. <i>Polymer Degradation and Stability</i> , 2007 , 92, 1491-1497	4.7	44
133	Relevance of mold-induced thermal boundary conditions and cavity deformation in the simulation of injection molding. <i>Polymer Engineering and Science</i> , 2001 , 41, 2022-2035	2.3	41
132	Hydrolysis and Biodegradation of Poly(lactic acid). <i>Advances in Polymer Science</i> , 2017 , 119-151	1.3	39
131	Simultaneous morphological and rheological measurements on polypropylene: Effect of crystallinity on viscoelastic parameters. <i>Journal of Rheology</i> , 2015 , 59, 377-390	4.1	36
130	Development of a rapid surface temperature variation system and application to micro-injection molding. <i>Journal of Materials Processing Technology</i> , 2016 , 237, 1-11	5.3	34
129	Pressure-dependent viscosity and free volume of atactic and syndiotactic polystyrene. <i>Rheologica Acta</i> , 2009 , 48, 467-478	2.3	33
128	Melt compounding of poly (Lactic Acid) and talc: assessment of material behavior during processing and resulting crystallization. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	31
127	Electrical conductivity of carbon nanotubes grown inside a mesoporous anodic aluminium oxide membrane. <i>Carbon</i> , 2013 , 55, 10-22	10.4	31
126	Pressure Effect on Viscosity for Atactic and Syndiotactic Polystyrene. <i>Polymer Bulletin</i> , 2005 , 54, 365-376	2.4	31
125	Lightweight High-Performance Polymer Composite for Automotive Applications. <i>Polymers</i> , 2019 , 11,	4.5	30
124	Improving the predictions of injection molding simulation software. <i>Polymer Engineering and Science</i> , 2011 , 51, 2542-2551	2.3	28
123	Description of PVT behavior of an industrial polypropylene/EPR copolymer in process conditions. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 267-278	2.9	28
122	Kinetics of melting and characterization of the thermodynamic and kinetic properties of syndiotactic polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 196-207	2.6	27
121	Molecular orientation and strain in injection moulding of thermoplastics. <i>Macromolecular Symposia</i> , 2002 , 185, 293-307	0.8	27
120	Effect of shear flow on spherulitic growth and nucleation rates of polypropylene. <i>Polymer</i> , 2016 , 90, 102-110	3.9	26
119	Use of sunflower seed fried oil as an ecofriendly plasticizer for starch and application of this thermoplastic starch as a filler for PLA. <i>Industrial Crops and Products</i> , 2018 , 122, 545-552	5.9	26
118	Analysis of gate freeze-off time in injection molding. <i>Polymer Engineering and Science</i> , 2004 , 44, 1-17	2.3	26
117	Morphology of injection moulded iPP samples. <i>Macromolecular Symposia</i> , 2002 , 185, 309-326	0.8	26

116	Relevance of Crystallisation Kinetics in the Simulation of the Injection Molding Process. <i>International Polymer Processing</i> , 2001 , 16, 61-71	1	25
115	Nucleation density and growth rate of polypropylene measured by calorimetric experiments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 112, 1481-1488	4.1	24
114	Biodegradable antimicrobial films based on poly(lactic acid) matrices and active azo compounds. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	24
113	Effect of mold opening on the properties of PLA samples obtained by foam injection molding. <i>Polymer Engineering and Science</i> , 2018 , 58, 475-484	2.3	23
112	Effect of molding conditions on crystallization kinetics and mechanical properties of poly(lactic acid). <i>Polymer Engineering and Science</i> , 2017 , 57, 306-311	2.3	23
111	Characterization of the polycaprolactone melt crystallization: complementary optical microscopy, DSC, and AFM studies. <i>Scientific World Journal, The</i> , 2014 , 2014, 720157	2.2	23
110	Effect of flow-induced crystallization on the distribution of spherulite dimensions along cross section of injection molded parts. <i>European Polymer Journal</i> , 2017 , 97, 220-229	5.2	22
109	Evolution of iPP Relaxation Spectrum during Crystallization. <i>Macromolecular Theory and Simulations</i> , 2014 , 23, 300-306	1.5	21
108	Fibrillar Morphology in Shear-Induced Crystallization of Polypropylene. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 1465-1473	3.9	21
107	Flow-Induced Morphology of iPP Solidified in a Shear Device. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 60-67	3.9	21
106	Monitoring of injection molding of thermoplastics: Average solidification pressure as a key parameter for quality control. <i>Macromolecular Research</i> , 2011 , 19, 542-554	1.9	21
105	Preparation, processing and analysis of physical properties of calcium ferrite-CNTs/PET nano-composite. <i>Composites Part B: Engineering</i> , 2015 , 81, 44-52	10	20
104	Injection molding of syndiotactic polystyrene/clay nanocomposites. <i>Polymer Engineering and Science</i> , 2006 , 46, 1768-1777	2.3	20
103	Replication of micro and nano-features on iPP by injection molding with fast cavity surface temperature evolution. <i>Materials and Design</i> , 2017 , 133, 559-569	8.1	19
102	Determination of the effect of pressure on viscosity of an isotactic polypropylene. <i>Polymer Bulletin</i> , 2013 , 70, 2005-2014	2.4	19
101	Ejection force of tubular injection moldings. Part II: A prediction model. <i>Polymer Engineering and Science</i> , 2005 , 45, 325-332	2.3	19
100	Barrier properties of PLA to water vapour: Effect of temperature and morphology. <i>Macromolecular Research</i> , 2013 , 21, 1110-1117	1.9	18
99	Validation of a model to predict birefringence in injection molding. <i>European Polymer Journal</i> , 2005 , 41, 1484-1492	5.2	18

98	Poly(Lactic Acid)-Based Nanobiocomposites with Modulated Degradation Rates. <i>Materials</i> , 2018 , 11,	3.5	18
97	Effects of water sorption on poly(lactic acid). <i>Polymer</i> , 2016 , 99, 130-139	3.9	17
96	Modulation of Biodegradation Rate of Poly(lactic acid) by Silver Nanoparticles. <i>Journal of Polymers and the Environment</i> , 2015 , 23, 316-320	4.5	16
95	Assessment of ball milling methodology to develop polylactide-bacterial cellulose nanocrystals nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	16
94	Polymeric foam-ferromagnet composites as smart lightweight materials. <i>Smart Materials and Structures</i> , 2016 , 25, 055014	3.4	15
93	Carbon nanotubes and expanded graphite based bulk nanocomposites for de-icing applications. <i>Composites Part B: Engineering</i> , 2021 , 207, 108583	10	15
92	Hybrid clay-carbon nanotube/PET composites: Preparation, processing, and analysis of physical properties. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	14
91	Foam injection molding of poly(lactic) acid: Effect of back pressure on morphology and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	14
90	Low-Voltage Icing Protection Film for Automotive and Aeronautical Industries. <i>Nanomaterials</i> , 2020 , 10,	5.4	14
89	Hierarchical Structure of iPP During Injection Molding Process with Fast Mold Temperature Evolution. <i>Materials</i> , 2019 , 12,	3.5	14
88	PLA Melt Stabilization by High-Surface-Area Graphite and Carbon Black. <i>Polymers</i> , 2018 , 10,	4.5	13
87	Solidification Criterion on Shrinkage Predictions for Semi-crystalline Injection Moulded Samples. <i>International Polymer Processing</i> , 2000 , 15, 284-290	1	13
86	Thirty Years of Modeling of Injection Molding. A Brief Review of the Contribution of UNISA Code to the Field. <i>International Polymer Processing</i> , 2016 , 31, 655-663	1	12
85	Rheological and mechanical behavior of ethyl vinyl acetate/low density polyethylene blends for injection molding. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 1157-1163	2.9	12
84	Processing and properties of biodegradable compounds based on aliphatic polyesters. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	12
83	Optical properties of polypropylene upon recycling. <i>Scientific World Journal, The</i> , 2013 , 2013, 354093	2.2	12
82	Evolution of Morphology of iPP in Processing Conditions. <i>International Polymer Processing</i> , 2005 , 20, 186-190	1	12
81	A spectroscopic approach to assess transport properties of water vapor in PLA. <i>Polymer Testing</i> , 2015 , 44, 15-22	4.5	11

80	Effect of Rapid Mold Heating on the Structure and Performance of Injection-Molded Polypropylene. <i>Polymers</i> , 2020 , 12,	4.5	11
79	Degradation kinetics and rheology of biodegradable polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 98, 645-653	4.1	11
78	Determination of crystallinity of an aliphatic polyester by FTIR spectroscopy. <i>Polymer Bulletin</i> , 2007 , 59, 403-412	2.4	11
77	Crystallization kinetics and PVT behavior of poly(vinylidene fluoride) in process conditions. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 3396-3403	2.9	11
76	PCL/Mesoglycan Devices Obtained by Supercritical Foaming and Impregnation. <i>Pharmaceutics</i> , 2019 , 11,	6.4	11
75	Hydrophobicity Tuning by the Fast Evolution of Mold Temperature during Injection Molding. <i>Polymers</i> , 2018 , 10,	4.5	10
74	Dynamic local temperature control in micro-injection molding: Effects on poly(lactic acid) morphology. <i>Polymer Engineering and Science</i> , 2018 , 58, 586-591	2.3	10
73	Process Induced Morphology Development of Isotactic Polypropylene on the Basis of Molecular Stretch and Mechanical Work Evolutions. <i>Materials</i> , 2019 , 12,	3.5	9
72	Poly(Lactic Acid): Flow-Induced Crystallization. <i>Advances in Polymer Science</i> , 2019 , 87-117	1.3	9
71	In-Mould Shrinkage Measurements of PS Samples with Strain Gages. <i>International Polymer Processing</i> , 1997 , 12, 396-402	1	9
70	Morphology Evolution During Polymer Crystallization Simultaneous Calorimetric and Optical Measurements. <i>Macromolecular Symposia</i> , 2006 , 234, 7-12	0.8	9
69	Effect of pressure and temperature history on volume relaxation of amorphous polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 1526-1537	2.6	9
68	Analysis of flow induced crystallization through molecular stretch. <i>Polymer</i> , 2016 , 105, 187-194	3.9	9
67	Determination of the effect of pressure on viscosity at high shear rates by using an injection molding machine. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45277	2.9	8
66	Analysis of Shrinkage Development of Injection Moulded PS Samples. <i>International Polymer Processing</i> , 1999 , 14, 183-190	1	8
65	Replication of Micro- and Nanofeatures in Injection Molding of Two PLA Grades with Rapid Surface-Temperature Modulation. <i>Materials</i> , 2018 , 11,	3.5	8
64	UV Irradiated Graphene-Based Nanocomposites: Change in the Mechanical Properties by Local HarmoniX Atomic Force Microscopy Detection. <i>Materials</i> , 2019 , 12,	3.5	7
63	Modelling of morphology development towards spherulites and shish kebabs: Application to isothermal flow-induced crystallization experiments on isotactic polypropylene. <i>Polymer</i> , 2020 , 196, 122459	3.9	7

62	Modelling morphology evolution during solidification of IPP in processing conditions 2014 ,		7
61	Foam injection molding of poly(lactic acid) with physical blowing agents 2014 ,		7
60	Effect of processing condition on properties of polylactic acid parts obtained by foam injection molding. <i>Journal of Cellular Plastics</i> , 2017 , 53, 491-502	1.5	7
59	Crystallization of syndiotactic polystyrene under high pressure and cooling rate. <i>Macromolecular Research</i> , 2010 , 18, 1045-1052	1.9	7
58	Two-phase crystallization kinetics of syndiotactic polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1757-1766	2.6	7
57	Pressure and cooling rate-induced densification of atactic polystyrene. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 184-190	2.9	7
56	Transport properties of water vapor through hemp fibers modified with a sustainable process: Effect of surface morphology on the thermodynamic and kinetic phenomena. <i>Applied Surface Science</i> , 2021 , 541, 148433	6.7	7
55	Magneto-mechanical behavior of elastomeric carbonyl iron particles composite foams produced by foam injection molding. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 466, 44-54	2.8	7
54	Orientation distribution in injection molding: a further step toward more accurate simulations. <i>Rheologica Acta</i> , 2012 , 51, 1041-1050	2.3	6
53	Monitoring of Injection Moulding of Thermoplastics: Adopting Pressure Transducers to Estimate the Solidification History and the Shrinkage of Moulded Parts. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2013 , 59, 677-682	1.3	6
52	Anisotropic shrinkage of injection molded poly vinylidene fluoride samples. <i>Polymer Engineering and Science</i> , 2007 , 47, 1788-1795	2.3	6
51	Melting and zero growth rate temperatures of syndiotactic polystyrene. <i>Colloid and Polymer Science</i> , 2008 , 286, 983-991	2.4	6
50	A Criterion for the Formation of Fibrillar Layers in Injection Molded Parts. <i>International Polymer Processing</i> , 2018 , 33, 355-362	1	6
49	Isothermal crystallization of PLA: Nucleation density and growth rates of α and β phases. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 1998-2007	2.3	5
48	Injection molding of magneto-sensitive polymer composites. <i>Materials Today Communications</i> , 2018 , 15, 280-287	2.5	5
47	Process-Induced Morphology Distribution in Injection Molded Syndiotactic Polystyrene Samples. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10840-10847	3.9	5
46	A novel apparatus for solidification of polymer samples under simultaneous high pressures and high cooling rates. <i>Review of Scientific Instruments</i> , 2005 , 76, 083901	1.7	5
45	Structural organization and transport properties of iPP/LLDPE blends solidified at controlled cooling rates. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 2237-2244	2.9	5

44	Physical changes of poly(lactic acid) induced by water sorption 2015 ,		4
43	Adopting the Experimental Pressure Evolution to Monitor Online the Shrinkage in Injection Molding. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16034-16041	3.9	4
42	Flexible eco-friendly multilayer film heaters. <i>Composites Part B: Engineering</i> , 2021 , 224, 109208	10	4
41	Supercritical CO ₂ impregnation of caffeine in biopolymer films to produce anti-cellulite devices. <i>Journal of Supercritical Fluids</i> , 2022 , 179, 105411	4.2	4
40	Fused Filament Deposition of PLA: The Role of Interlayer Adhesion in the Mechanical Performances. <i>Polymers</i> , 2021 , 13,	4.5	4
39	Modeling of the Injection Molding Process Coupled with the Fast Mold Temperature Evolution. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B3148-B3155	3.9	3
38	Fast temperature evolution on the mold surface: Analysis and simulation 2016 ,		3
37	Spherulitic nucleation and growth rates in a sheared polypropylene melt 2014 ,		3
36	Biodegradable compounds: Rheological, mechanical and thermal properties 2015 ,		3
35	Modeling morphology evolution during injection molding of thermoplastic polymers 2015 ,		3
34	Prediction of morphology development within microinjection molding samples. <i>Polymer</i> , 2021 , 228, 123850	3.9	3
33	Micromolded Polylactid Acid With Selective Degradation Rate. <i>Frontiers in Materials</i> , 2019 , 6,	4	3
32	Fibrillar morphology formation in a sheared polypropylene melt 2014 ,		2
31	As-molded shrinkage on industrial polypropylene injection molded parts: experiments and analysis. <i>International Journal of Material Forming</i> , 2008 , 1, 719-722	2	2
30	Crystallization kinetics of a fluorinated copolymer of tetrafluoroethylene. <i>European Polymer Journal</i> , 2004 , 40, 2089-2095	5.2	2
29	Magnetic field-structuring as versatile approach to shape the anisotropic mechanical response of composite foams. <i>Composites Part B: Engineering</i> , 2021 , 212, 108659	10	2
28	Smart behavior of elastomeric composites produced by injection molding. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46863	2.9	2
27	Flow-induced crystallization of a Poly(Lactic acid): Effect of the application of low shear rates on the polymorphous crystallization. <i>Polymer</i> , 2021 , 229, 123997	3.9	2

26	Foam injection molding of magneto sensitive polymer composites 2019 ,		1
25	Morphology Development and Control 2019 , 243-294		1
24	Effect of Draw Ratio on Physical, Release, and Antibacterial Properties of Poly(E-caprolactone) Loaded with Lysozyme. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700367	3.9	1
23	Morphology and structure development during injection molding with fast mold temperature evolution 2017 ,		1
22	Effect of processing conditions on the cell morphology distribution in foamed injection molded PLA samples 2017 ,		1
21	Injection molding of iPP samples in controlled conditions and resulting morphology 2015 ,		1
20	Effect of an acid filler on hydrolysis and biodegradation of poly-lactic acid (PLA) 2015 ,		1
19	Effect of crystallinity on the viscosity of an isotactic polypropylene 2015 ,		1
18	Effect of pressure on viscosity at high shear rates by using an injection molding machine 2015 ,		1
17	Modeling Aspects of Post-Filling Steps in Injection Molding 2009 , 731-778		1
16	Prediction of the maximum flow length of a thin injection molded part. <i>Journal of Polymer Engineering</i> , 2020 , 40, 783-795	1.4	1
15	Polycaprolactone/polyethylene-glycol capsules made by injection molding: A drug release modeling. <i>Materials Science and Engineering C</i> , 2021 , 123, 112036	8.3	1
14	Comparison of Degradation Behavior of Newly Developed Encapsulation Materials for Photovoltaic Applications under Different Artificial Ageing Tests. <i>Polymers</i> , 2021 , 13,	4.5	1
13	Effect of the application of low shear rates on the crystallization kinetics of PLA. <i>Polymer Crystallization</i> , 2020 , 3, e10139	0.9	0
12	GRICU 2019 special issue section preface. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 1866-1867	2.3	0
11	Characterization of Recycled/Virgin Polyethylene Terephthalate Composite Reinforced with Glass Fiber for Automotive Applications. <i>Journal of Composites Science</i> , 2022 , 6, 59	3	0
10	A layer-by-layer approach based on APTES/Cloisite to produce novel and sustainable high performances materials based on hemp fiberboards. <i>Polymer Degradation and Stability</i> , 2022 , 198, 109892	4.7	0
9	Effects of an External Magnetic Field on Polymeric Foam-Ferromagnet Composites. <i>Advances in Science and Technology</i> , 2016 , 97, 30-35	0.1	

- 8 Enhanced Durability of Graphene-Based Epoxy Films. *Key Engineering Materials*, **2019**, 813, 279-284 0.4
- 7 Nucleation and Growth Rate of a Poly(Lactic Acid) in Quiescent Conditions. *Lecture Notes in Bioengineering*, **2020**, 41-47 0.8
- 6 The 70th Birthday of Prof. Giuseppe Titomanlio. *International Polymer Processing*, **2016**, 31, 530-531 1
- 5 Natural resources derived biocomposites as potential carriers of green pesticides in agricultural field: Designing and fabrication of a pot-like device. *Journal of Applied Polymer Science*, **2021**, 138, 51240^{2,9}
- 4 New Aircraft Anti/de-Icing Technologies. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1024, 012012 0.4
- 3 PLA-Based Nanobiocomposites with Modulated Biodegradation Rate. *Lecture Notes in Bioengineering*, **2018**, 51-60 0.8
- 2 (Invited) Modeling Morphology Distribution in Injection Molded Polypropylene Parts. *ECS Transactions*, **2018**, 88, 169-175 1
- 1 Injection Molding Simulation of Polyoxymethylene Using Crystallization Kinetics Data and Comparison with the Experimental Process. *Polymer Crystallization*, **2022**, 2022, 1-15 0.9