Rajesh Kumar Mishra

List of Publications by Year
in descending order

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153	2,799	159358	243296
papers	citations	30 h-index	44 g-index

155	155	155	2255
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A green material from rock: basalt fiber â€“ a review. Journal of the Textile Institute, 2016, 107, 923-937.	1.0	235
2	Solvent extraction of Fe(III) from the chloride leach liquor of low grade iron ore tailings using Aliquat 336. Hydrometallurgy, 2011, 108, 93-99.	1.8	111
3	Sound Absorption Properties of Natural Fibers: A Review. Sustainability, 2020, 12, 8477.	1.6	101
4	Coating of cellulose-TiO2 nanoparticles on cotton fabric for durable photocatalytic self-cleaning and stiffness. Carbohydrate Polymers, 2016, 150, 107-113.	5.1	86
5	Efficient Refolding of Aggregation-prone Citrate Synthase by Polyol Osmolytes. Journal of Biological Chemistry, 2005, 280, 15553-15560.	1.6	85
6	Acoustic, Mechanical and Thermal Properties of Green Composites Reinforced with Natural Fibers Waste. Polymers, 2020, 12, 654.	2.0	84
7	Aerogels for thermal insulation in high-performance textiles. Textile Progress, 2016, 48, 55-118.	1.3	63
8	Recycling of textile waste into green composites: Performance characterization. Polymer Composites, 2014, 35, 1960-1967.	2.3	55
9	Thermomechanical properties of glass fabric/epoxy composites filled with fly ash. Composites Part B: Engineering, 2016, 85, 268-276.	5.9	52
10	Tropical fevers: Management guidelines. Indian Journal of Critical Care Medicine, 2014, 18, 62-69.	0.3	50
11	Mechanical, thermal and interfacial properties of green composites from basalt and hybrid woven fabrics. Fibers and Polymers, 2016, 17, 1675-1686.	1.1	45
12	Bio-Composites Reinforced with Natural Fibers: Comparative Analysis of Thermal, Static and Dynamic-Mechanical Properties. Fibers and Polymers, 2020, 21, 619-627.	1.1	42
13	Modeling of internal geometry of 3D woven fabrics by computation method. Journal of the Textile Institute, 2013, 104, 312-321.	1.0	41
14	The production, characterization and applications of nanoparticles in the textile industry. Textile Progress, 2014, 46, 133-226.	1.3	41
15	Natural Cellulosic Fiber Reinforced Concrete: Influence of Fiber Type and Loading Percentage on Mechanical and Water Absorption Performance. Materials, 2022, 15, 874.	1.3	41
16	Thermodynamics of aerogel-treated nonwoven fabrics at subzero temperatures. Journal of Industrial Textiles, 2015, 45, 387-404.	1.1	40
17	Artificial neural networkâ€based prediction of aesthetic and functional properties of worsted suiting fabrics. International Journal of Clothing Science and Technology, 2007, 19, 259-276.	0.5	39
18	Modelling and simulation of earthquake resistant 3D woven textile structural concrete composites. Composites Part B: Engineering, 2015, 81, 91-97.	5.9	39

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19	Aerogel based nanoporous fibrous materials for thermal insulation. Fibers and Polymers, 2014, 15, 1444-1449.	1.1	38
20	Objective measurement of fabric appearance using digital image processing. Journal of the Textile Institute, 2006, 97, 147-153.	1.0	37
21	Comparative analysis of mechanical properties of size film. I. Performance of individual size materials. Fibers and Polymers, 2008, 9, 481-488.	1.1	37
22	Novel techniques to analyse thermal performance of aerogel-treated blankets under extreme temperatures. Journal of the Textile Institute, 2015, 106, 736-747.	1.0	36
23	Acoustic evaluation of Struto nonwovens and their relationship with thermal properties. Textile Reseach Journal, 2018, 88, 426-437.	1.1	36
24	Study on the sound absorption behavior of multi-component polyester nonwovens: experimental and numerical methods. Textile Reseach Journal, 2019, 89, 3342-3361.	1.1	36
25	Effect of TiO₂nanoparticles on basalt/polysiloxane composites: mechanical and thermal characterization. Journal of the Textile Institute, 2012, 103, 1361-1368.	1.0	35
26	Influence of noncellulosic contents on nano scale refinement of waste jute fibers for reinforcement in polylactic acid films. Fibers and Polymers, 2014, 15, 1500-1506.	1.1	35
27	Prediction of Fabric Drape Behaviour using Finite Element Method. Journal of Textile Engineering, 2008, 54, 103-110.	0.5	33
28	Modelling and simulation of 3D orthogonal fabrics for composite applications. Journal of the Textile Institute, 2012, 103, 1255-1261.	1.0	33
29	Novelties of 3-D woven composites and nanocomposites. Journal of the Textile Institute, 2014, 105, 84-92.	1.0	33
30	Electrospun nanofibrous membranes embedded with aerogel for advanced thermal and transport properties. Polymers for Advanced Technologies, 2018, 29, 2583-2592.	1.6	32
31	Transport properties of aerogel-based nanofibrous nonwoven fabrics. Fibers and Polymers, 2016, 17, 1709-1714.	1.1	29
32	Thermal and compression characteristics of aerogel-encapsulated textiles. Journal of Industrial Textiles, 2018, 47, 1998-2013.	1.1	29
33	Interfacial performance and durability of textile reinforced concrete. Journal of the Textile Institute, 2018, 109, 879-890.	1.0	28
34	Effect of silanization on copper coated milife fabric with improved EMI shielding effectiveness. Materials Chemistry and Physics, 2020, 239, 122008.	2.0	28
35	In-plane shear behavior of 3D spacer knitted fabrics. Journal of Industrial Textiles, 2016, 46, 868-886.	1.1	27
36	Influence of cellulosic and non-cellulosic particle fillers on mechanical, dynamic mechanical, and thermogravimetric properties of waste cotton fibre reinforced green composites. Composites Part B: Engineering, 2021, 207, 108595.	5.9	27

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37	A study of some airflow resistivity models for multi-component polyester fiber assembly. Applied Acoustics, 2018, 139, 75-81.	1.7	25
38	Sound absorption and compression properties of perpendicular-laid nonwovens. Textile Reseach Journal, 2019, 89, 612-624.	1.1	25
39	Basalt nanoparticle reinforced hybrid woven composites: Mechanical and thermo-mechanical performance. Fibers and Polymers, 2017, 18, 2433-2442.	1.1	24
40	Investigation on sound absorption properties of aerogel/polymer nonwovens. Journal of the Textile Institute, 2019, 110, 196-201.	1.0	23
41	Tropical fevers in Indian intensive care units: A prospective multicenter study. Indian Journal of Critical Care Medicine, 2017, 21, 811-818.	0.3	23
42	Thermal and water vapor transmission through porous warp knitted 3D spacer fabrics for car upholstery applications. Journal of the Textile Institute, 2018, 109, 345-357.	1.0	21
43	Low-Cycle Fatigue Behavior of 3D-Printed PLA Reinforced with Natural Filler. Polymers, 2022, 14, 1301.	2.0	21
44	Chemical chaperone-mediated protein folding: stabilization of P22 tailspike folding intermediates by glycerol. Biological Chemistry, 2007, 388, 797-804.	1.2	20
45	3D woven green composites from textile waste: mechanical performance. Journal of the Textile Institute, 2014, 105, 460-466.	1.0	19
46	Factors Affecting Acoustic Properties of Natural-Fiber-Based Materials and Composites: A Review. Textiles, 2021, 1, 55-85.	1.8	19
47	Thermo-acoustic behaviour of 3D knitted spacer fabrics. Fibers and Polymers, 2015, 16, 2467-2476.	1.1	18
48	Study on air permeability and thermal resistance of textiles under heat convection. Textile Reseach Journal, 2015, 85, 1681-1690.	1.1	18
49	Dyeing and stiffness characteristics of cellulose-coated cotton fabric. Cellulose, 2016, 23, 981-992.	2.4	17
50	Nanoporous materials. , 2019, , 311-353.		17
51	Investigation on thermo-physiological and compression characteristics of weft-knitted 3D spacer fabrics. Journal of the Textile Institute, 0, , 1-11.	1.0	16
52	Prediction of quality using ANN based on Teachingâ€Learning Optimization in componentâ€based software systems. Software - Practice and Experience, 2018, 48, 896-910.	2.5	16
53	Influence of structural parameters on thermal performance of polypropylene nonwovens. Polymers for Advanced Technologies, 2018, 29, 3027-3034.	1.6	16
54	Specific functional properties of 3D woven glass nanocomposites. Journal of Composite Materials, 2014, 48, 1745-1754.	1.2	15

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55	Finite element modeling based thermodynamic simulation of aerogel embedded nonwoven thermal insulation material. International Journal of Thermal Sciences, 2021, 164, 106898.	2.6	15
56	Dynamic heat flux measurement for advanced insulation materials. Fibers and Polymers, 2016, 17, 925-931.	1.1	14
57	Thermo-physiological properties of 3D spacer knitted fabrics. International Journal of Clothing Science and Technology, 2016, 28, 328-339.	0.5	14
58	Effect of compressibility on heat transport phenomena in aerogel-treated nonwoven fabrics. Journal of the Textile Institute, 2016, 107, 1150-1158.	1.0	14
59	Modelling and simulation of heat transfer by convection in aerogel treated nonwovens. Journal of the Textile Institute, 2017, 108, 1442-1453.	1.0	14
60	Design, Development, and Characterization of Advanced Textile Structural Hollow Composites. Polymers, 2021, 13, 3535.	2.0	14
61	Investigation on acoustic behavior and air permeability of struto nonwovens. Fibers and Polymers, 2016, 17, 2078-2084.	1.1	13
62	Thermal and mechanical characterization of novel basalt woven hybrid structures. Journal of the Textile Institute, 2016, 107, 462-471.	1.0	13
63	Lignocellulosic Natural Fiber Reinforced Bisphenol F Epoxy Based Bio-composites: Characterization of Mechanical Electrical Performance. Journal of Natural Fibers, 2020, , 1-16.	1.7	13
64	Nicking and fragmentation are responsible for Î±â€lactalbumin amyloid fibril formation at acidic <scp>pH</scp> and elevated temperature. Protein Science, 2021, 30, 1919-1934.	3.1	13
65	Meso-scale finite element modeling of triaxial woven fabrics for composite in-plane reinforcement properties. Textile Reseach Journal, 2013, 83, 1836-1845.	1.1	12
66	Impact tolerance of 3D woven nanocomposites: a simulation approach. Journal of the Textile Institute, 2013, 104, 562-570.	1.0	12
67	Drape behavior of 3D woven glass-epoxy composites. Polymer Composites, 2016, 37, 472-480.	2.3	12
68	Thermomechanical characteristics of basalt hybrid and nonhybrid woven fabricâ€“reinforced epoxy composites. Polymer Composites, 2016, 37, 2982-2994.	2.3	12
69	Removal of Mercury from Aqueous Environment by Jute Nanofiber. Journal of Fiber Bioengineering and Informatics, 2013, 6, 175-184.	0.2	12
70	Turning textile waste into valuable yarn. Cleaner Engineering and Technology, 2021, 5, 100341.	2.1	12
71	A comparison of fabric structures for carbon fiber reinforced composite: Laminated and orthogonal woven structures. Polymer Composites, 2021, 42, 5300-5309.	2.3	11
72	Thermo physiological comfort of single jersey knitted fabric derivatives. Fashion and Textiles, 2021, 8, .	1.3	11

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73	Impact simulation of three-dimensional woven kevlar-epoxy composites. Journal of Industrial Textiles, 2016, 45, 978-994.	1.1	10
74	Basalt fibers. , 2018, , 805-840.		10
75	An experimental evaluation of convective heat transfer in multi-layered fibrous materials composed by different middle layer structures. Journal of Industrial Textiles, 2021, 51, 362-379.	1.1	10
76	Determination of the permeability coefficient and airflow resistivity of nonwoven materials. Textile Reseach Journal, 2022, 92, 126-142.	1.1	10
77	Differential effect of polyol and sugar osmolytes on the refolding of homologous alpha amylases: A comparative study. Biophysical Chemistry, 2022, 281, 106733.	1.5	10
78	Surface modification of polymer optical fibers for enhanced side emission behavior. Fibers and Polymers, 2013, 14, 1468-1471.	1.1	9
79	Mechanical, thermo-mechanical and thermal characteristics of multi-walled carbon nanotubes-added textile-reinforced composites. Journal of Industrial Textiles, 2020, 50, 692-715.	1.1	9
80	Characterization on Polyester Fibrous Panels and Their Homogeneity Assessment. Polymers, 2020, 12, 2098.	2.0	9
81	Quasi-Static Tests of Hybrid Adhesive Bonds Based on Biological Reinforcement in the Form of Eggshell Microparticles. Polymers, 2020, 12, 1391.	2.0	9
82	Comparative Analysis of High Performance Thermal Insulation Materials. Journal of Textile Engineering & Fashion Technology, 2017, 2, .	0.1	9
83	3D Woven Textile Structural Polymer Composites: Effect of Resin Processing Parameters on Mechanical Performance. Polymers, 2022, 14, 1134.	2.0	9
84	Investigation of electrical properties of basalt and its hybrid structures. Textile Reseach Journal, 2017, 87, 715-725.	1.1	8
85	Ozone Effect On the Properties of Aramid Fabric. Autex Research Journal, 2017, 17, 164-169.	0.6	8
86	Impact of N-glycosylation site variants during human PrP aggregation and fibril nucleation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 909-921.	1.1	8
87	Mechanical Performance of Knitted Hollow Composites from Recycled Cotton and Glass Fibers for Packaging Applications. Polymers, 2021, 13, 2381.	2.0	8
88	Different unfolding pathways of homologous alpha amylases from Bacillus licheniformis (BLA) and Bacillus amyloliquefaciens (BAA) in GdmCl and urea. International Journal of Biological Macromolecules, 2020, 159, 667-674.	3.6	8
89	Application of silver nanoparticles to industrial sewing threads: Effects on physico-functional properties & seam efficiency. Fibers and Polymers, 2014, 15, 510-518.	1.1	7
90	End use performance characterization of unconventional knitted fabrics. Fibers and Polymers, 2015, 16, 2477-2490.	1.1	7

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91	FEM based prediction of 3D woven fabric reinforced concrete under mechanical load. Journal of Building Engineering, 2018, 18, 95-106.	1.6	7
92	In-plane shear behavior of 3D warp-knitted spacer fabrics: Part IIâ€"Effect of structural parameters. Journal of Industrial Textiles, 2018, 48, 772-801.	1.1	7
93	Electrospun nanofibers. , 2019, , 35-161.		7
94	Noise attenuation performance of warp knitted spacer fabrics. Textile Reseach Journal, 2019, 89, 281-293.	1.1	7
95	Influence of inlay yarn type and stacking sequence on mechanical performance of knitted uni-directional thermoplastic composite prepregs. Journal of Industrial Textiles, 2022, 51, 4973S-5008S.	1.1	7
96	Effect of Stitch Characteristics on Flammability and Thermo-Physiological Comfort Properties of Knitted Fabrics. Fibers and Polymers, 2020, 21, 2652-2663.	1.1	7
97	Elderly fall detection using IoT and image processing. Journal of Discrete Mathematical Sciences and Cryptography, 2021, 24, 681-695.	0.5	7
98	A partnership model for capacity-building of primary care physicians in evidence-based management of diabetic retinopathy in India. Indian Journal of Ophthalmology, 2020, 68, 67.	0.5	7
99	Novelty of bamboo fabric. Journal of the Textile Institute, 0, , 1-10.	1.0	6
100	3D Numerical Simulation of Laminar Flow and Conjugate Heat Transfer through Fabric. Autex Research Journal, 2017, 17, 53-60.	0.6	6
101	Nanocomposites. , 2019, , 263-310.		6
102	Laparoscopic 'steering wheel' derotation technique for midgut volvulus in children with intestinal malrotation. Journal of Minimal Access Surgery, 2019, 15, 219.	0.4	6
103	Investigation of mechanical properties of basalt woven fabrics by theoretical and image analysis methods. Fibers and Polymers, 2017, 18, 1369-1381.	1.1	5
104	Investigation on laser engraving based application of silica aerogel into nonwovens. Fibers and Polymers, 2017, 18, 2469-2475.	1.1	5
105	Routing protocol development for quality of service optimization of videoâ€onâ€demand system over mobile ad hoc networks. International Journal of Communication Systems, 2018, 31, e3452.	1.6	5
106	Compression resilience and impact resistance of fiberâ€reinforced sandwich composites. Polymers for Advanced Technologies, 2019, 30, 3073-3082.	1.6	5
107	Quasi-Static Shear Test of Hybrid Adhesive Bonds Based on Treated Cotton-Epoxy Resin Layer. Polymers, 2020, 12, 2945.	2.0	5
108	Elderly fall due to drowsiness: detection and prevention using machine learning and IOT. Modern Physics Letters B, 2021, 35, 2150120.	1.0	5

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109	Characterization of Hybrid Composites with Polyester Waste Fibers, Olive Root Fibers and Coir Pith Micro-Particles Using Mixture Design Analysis for Structural Applications. Polymers, 2021, 13, 2291.	2.0	5
110	Acoustic behaviour of textile structures. Textile Progress, 2021, 53, 1-64.	1.3	5
111	Structural and functional adaptation in extremophilic microbial Î±-amylases. Biophysical Reviews, 2022, 14, 499-515.	1.5	5
112	Exploration of Effects of Graduated Compression Stocking Structures on Performance Properties Using Principal Component Analysis: A Promising Method for Simultaneous Optimization of Properties. Polymers, 2022, 14, 2045.	2.0	5
113	Thermal Insulation and Porosityâ€"From Macro- to Nanoscale. Hot Topics in Thermal Analysis and Calorimetry, 2017, , 425-448.	0.5	4
114	Flame-resistant pure and hybrid woven fabrics from basalt. IOP Conference Series: Materials Science and Engineering, 2017, 254, 022004.	0.3	4
115	Nanoparticles and textile technology. , 2019, , 181-217.		4
116	May Measurement Month 2017: an analysis of the blood pressure screening campaign results in Indiaâ€"South Asia. European Heart Journal Supplements, 2019, 21, D59-D62.	0.0	4
117	Axial and Radial Compression Behavior of Composite Rocket Launcher Developed by Robotized Filament Winding: Simulation and Experimental Validation. Polymers, 2021, 13, 517.	2.0	4
118	Thermal Behavior of Aerogel-Embedded Nonwovens in Cross Airflow. Autex Research Journal, 2021, 21, 115-124.	0.6	4
119	Modelling of Auxetic Woven Structures for Composite Reinforcement. Textiles, 2022, 2, 1-15.	1.8	4
120	Solar Cycle Variation of Cosmic ray Intensity along with Interplanetary and Solar Wind Plasma Parameters. Latvian Journal of Physics and Technical Sciences, 2008, 45, 63-68.	0.4	3
121	Preparation of Electrosprayed Microporous Membranes. IOP Conference Series: Materials Science and Engineering, 2018, 460, 012017.	0.3	3
122	Carbon-based nanomaterials. , 2019, , 163-179.		3
123	Characterization of nanomaterials in textiles. , 2019, , 219-261.		3
124	Thermal and thermo-mechanical characterization of MWCNTs integrated E-glass/carbon fabric reinforced composites. Journal of Industrial Textiles, 2022, 51, 8845S-8864S.	1.1	3
125	Design and packaging of dualâ€band and dualâ€polarized planar antenna for automotive applications. Microwave and Optical Technology Letters, 2020, 62, 3215-3224.	0.9	3
126	Effect of internal mold release agent on flexural and inter laminar shear properties of carbon and glass fabric reinforced thermoset composites. Polymers for Advanced Technologies, 2021, 32, 282-293.	1.6	3

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127	Application of Acoustical Method to Characterize Nonwoven Material. Fibers and Polymers, 2021, 22, 831-840.	1.1	3
128	Estimation of whole body radiation exposure to nuclear medicine personnel during synthesis of 177lutetium-labeled radiopharmaceuticals. Indian Journal of Nuclear Medicine, 2017, 32, 89.	0.1	3
129	A Prospective Observational Study of Rational Fluid Therapy in Asian Intensive Care Units: Another Puzzle Piece in Fluid Therapy. Indian Journal of Critical Care Medicine, 2020, 24, 1028-1036.	0.3	3
130	Comparative analysis of mechanical properties of size film. II. Effect of blend composition and lubricants. Fibers and Polymers, 2008, 9, 489-494.	1.1	2
131	Structural design engineering of woven fabric by soft computing: mathematical manoeuverability to control crimp in the fabric. Journal of the Textile Institute, 2012, 103, 400-404.	1.0	2
132	Future outlook in the context of nanoscale textiles as a technology for the twenty-first century. , 2019, , 387-388.		2
133	Nanorisks and nanohazards. , 2019, , 355-385.		2
134	Selected Application of Linear Composites Containing Side Emitting Optical Fibres. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012002.	0.3	2
135	Design of low volume circularly polarized annular ringâ€shaped planar antenna for <scp>GPS</scp> applications. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22698.	0.8	2
136	Weavability of Cold-sized Worsted Warp Yarns. Journal of Textile Engineering, 2006, 52, 179-187.	0.5	2
137	Natural Cellulosic Fiber Reinforced Bio-Epoxy Based Composites and Their Mechanical Properties. Lecture Notes in Computer Science, 2021, , 80-96.	1.0	2
138	Study on the in-plane shear performance of spacer fabrics in composite forming. Materiali in Tehnologije, 2018, 52, 47-50.	0.3	2
139	Effect of Waterjet Machining Parameters on the Cut Quality of PP and PVC-U Materials Coated with Polyurethane and Acrylate Coatings. Materials, 2021, 14, 7542.	1.3	2
140	Photoilluminance of different woven structures by treatment with phosphorescent pigment. Fibers and Polymers, 2014, 15, 950-953.	1.1	1
141	Automotive applications of manikins. , 2017, , 301-329.		1
142	Nature, nanoscience, and textile structures. , 2019, , 1-34.		1
143	Tensile Properties of Glass Roving and Hybrid Tapes. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012055.	0.3	1
144	Comparison of 3D vs 2D laparoscopicâ€assisted anorectal pullâ€through (LAARP) for high anorectal malformations in children. Asian Journal of Endoscopic Surgery, 2021, 14, 424-431.	0.4	1

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145	Experimental Investigation of Wavy-Lap Bonds with Natural Cotton Fabric Reinforcement under Cyclic Loading. Polymers, 2021, 13, 2872.	2.0	1
146	Examination of the Thermo-mechanical Properties of E-Glass/Carbon Composites. Tekstilec, 2017, 60, 263-268.	0.3	1
147	Pregnancy outcomes following exposure to efavirenz based antiretroviral therapy in indian women. Indian Journal of Pharmacology, 2020, 52, 467.	0.4	1
148	Performance analysis of socks produced by auxetic yarns for protective applications. Journal of Industrial Textiles, 0, , 152808372210825.	1.1	1
149	Development and evaluation of dustless fabrics for medical applications. Journal of the Textile Institute, 2009, 100, 466-474.	1.0	0
150	Aerogel Based High Performance Thermal Insulation Materials. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012043.	0.3	0
151	Cosmic Ray Nucleonic Intensity in Low-Amplitude Days During the Passage of High-Speed Solar Wind Streams. Latvian Journal of Physics and Technical Sciences, 2008, 45, 61-66.	0.4	0
152	Natural Fiber Based Antibacterial, Wound Healing Surgical Sutures by the Application of Herbal Antimicrobial Compounds. Journal of Natural Fibers, 0, , 1-16.	1.7	0
153	Staphylococcal Protein A with Engineered Cysteine: Comparison of Monomeric Content as a Critical Quality Attribute during Intracellular and Extracellular Expression. Fermentation, 2022, 8, 150.	1.4	0