

Zahoor H Farooqi

List of Publications by Year in Descending Order

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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.

114
papers

2,491
citations

31
h-index

45
g-index

120
ext. papers

3,139
ext. citations

4
avg, IF

5.72
L-index

#	Paper	IF	Citations
114	Polymer microgels for the stabilization of gold nanoparticles and their application in the catalytic reduction of nitroarenes in aqueous media.. <i>RSC Advances</i> , 2022 , 12, 5105-5117	3.7	5
113	Engineering of micron-sized spherical anionic microgel fabricated with silver nanoparticles with antimicrobial and catalytic potential. <i>Journal of Materials Science</i> , 2022 , 57, 6763-6779	4.3	2
112	Fabrication of poly (N-vinylcaprolactam-co-acrylic acid)-silver nanoparticles composite microgel with substantial potential of hydrogen peroxide sensing and catalyzing the reduction of water pollutants. <i>Journal of Molecular Liquids</i> , 2022 , 355, 118931	6	3
111	Synthesis of hybrid biosorbent based on 1,2-cyclohexylenedinitrilotetraacetic acid modified crosslinked chitosan and organo-functionalized calcium alginate for adsorptive removal of Cu(II).. <i>International Journal of Biological Macromolecules</i> , 2022 , 209, 132-143	7.9	3
110	Modified alginate-chitosan-TiO composites for adsorptive removal of Ni(II) ions from aqueous medium. <i>International Journal of Biological Macromolecules</i> , 2021 , 194, 117-127	7.9	2
109	Polymer hydrogels for stabilization of inorganic nanoparticles and their application in catalysis for degradation of toxic chemicals. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-11	2.6	0
108	Production of fuel oil and combustible gases from pyrolysis of polystyrene waste: Kinetics and thermodynamics interpretation. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101996	7	1
107	Micellar flocculation for the treatment of synthetic dyestuff effluent: Kinetic, thermodynamic and mechanistic insights. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117964	6	0
106	Recyclable polymer microgel stabilized rhodium nanoparticles for reductive degradation of para-nitrophenol. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021 ,	3.1	1
105	Synthesis and characterization of cobalt nanoparticles containing anionic polymer hydrogel nanocomposite catalysts for fast reduction of nitrocompounds in water. <i>Journal of Porous Materials</i> , 2021 , 28, 1563-1576	2.4	2
104	Kinetics of pyrolysis of sugarcane bagasse: effect of catalyst on activation energy and yield of pyrolysis products. <i>Cellulose</i> , 2021 , 28, 7593-7607	5.5	6
103	Facile Synthesis of Novel Carboxymethyl-Chitosan/Sodium Alginate Grafted with Amino-Carbamate Moiety/Bentonite Clay Composite for Effective Biosorption of Ni (II) from Aqueous Solution. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021 , 235, 583-607	3.1	2
102	Synthesis of novel quaternary ammonium salts from 1, 2-benzothiazine derivatives. <i>Journal of Sulfur Chemistry</i> , 2021 , 42, 15-28	2.3	0
101	Inorganic nanoparticles for reduction of hexavalent chromium: Physicochemical aspects. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123535	12.8	43
100	Stabilization of silver nanoparticles in crosslinked polymer colloids through chelation for catalytic degradation of p-nitroaniline in aqueous medium. <i>Chemical Physics Letters</i> , 2021 , 763, 138263	2.5	11
99	Core/shell composite microparticles for catalytic reduction of p-nitrophenol: kinetic and thermodynamic study. <i>International Journal of Environmental Science and Technology</i> , 2021 , 18, 1809-1820	3.3	8
98	Kinetic study of the pyrolysis of polypropylene over natural clay. <i>Journal of Polymer Engineering</i> , 2021 , 41, 646-653	1.4	1

97	Silver nanoparticles supported on smart polymer microgel system for highly proficient catalytic reduction of Cr+6 to Cr+3 with formic acid. <i>Applied Organometallic Chemistry</i> , 2021 , 35, e6405	3.1	5
96	Gold nanoparticles and polymer microgels: Last five years of their happy and successful marriage. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116270	6	11
95	Poly(styrene@N-isopropylmethacrylamide-co-methacrylic acid)@Ag hybrid particles with excellent catalytic potential. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116106	6	13
94	Crosslinked polymer encapsulated palladium nanoparticles for catalytic reduction and Suzuki reactions in aqueous medium. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116780	6	7
93	Lab-scale continuous flow studies for comparative biosorption of cadmium (II) on untreated and xanthated <i>Ficus religiosa</i> biomass. <i>Water Environment Research</i> , 2021 , 93, 2681-2695	2.8	0
92	Synthesis and characterization of poly(N-isopropylmethacrylamide-acrylic acid) smart polymer microgels for adsorptive extraction of copper(II) and cobalt(II) from aqueous medium: kinetic and thermodynamic aspects. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 28169-28182	5.1	10
91	Core-shell microgel stabilized silver nanoparticles for catalytic reduction of aryl nitro compounds. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5742	3.1	7
90	Extraction of cobalt ions from aqueous solution by microgels for in-situ fabrication of cobalt nanoparticles to degrade toxic dyes: A two fold-environmental application. <i>Chemical Physics Letters</i> , 2020 , 754, 137645	2.5	24
89	Tuning catalysis of boronic acids in microgels by reversible structural variations.. <i>RSC Advances</i> , 2020 , 10, 3734-3744	3.7	
88	Systematic study of catalytic degradation of nitrobenzene derivatives using core@shell composite micro particles as catalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 594, 124646	5.1	11
87	Environmentally benign extraction of cellulose from dunchi fiber for nanocellulose fabrication. <i>International Journal of Biological Macromolecules</i> , 2020 , 153, 72-78	7.9	26
86	Pyrolysis of polystyrene waste for recovery of combustible hydrocarbons using copper oxide as catalyst. <i>Waste Management and Research</i> , 2020 , 38, 1269-1277	4	10
85	Fabrication of a novel hybrid biocomposite based on amino-thiocarbamate derivative of alginate/carboxymethyl chitosan/TiO for Ni(II) recovery. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 380-392	7.9	11
84	Amino-carbamate moiety grafted calcium alginate hydrogel beads for effective biosorption of Ag(I) from aqueous solution: Economically-competitive recovery. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 362-372	7.9	20
83	Physicochemical aspects of reduction of 3-Nitroaniline using methacrylamide based nano-hybrid catalyst. <i>Chemical Physics Letters</i> , 2020 , 759, 137992	2.5	1
82	Pyrolysis of waste tire rubber: a comparative kinetic study using different models. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-11	1.6	2
81	Catalytic degradation of malachite green using a crosslinked colloidal polymeric system loaded with silver nanoparticles. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-17	1.8	16
80	Silver nanoparticles stabilized in polymer hydrogels for catalytic degradation of azo dyes. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 202, 110924	7	32

79	Zero valent iron nanoparticles as sustainable nanocatalysts for reduction reactions. <i>Catalysis Reviews - Science and Engineering</i> , 2020 , 1-70	12.6	4
78	Chemical reduction of methylene blue in the presence of nanocatalysts: a critical review. <i>Reviews in Chemical Engineering</i> , 2020 , 36, 749-770	5	45
77	Hybrid Microgels for Catalytic and Photocatalytic Removal of Nitroarenes and Organic Dyes From Aqueous Medium: A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2020 , 50, 513-537	5.2	25
76	Physicochemical aspects of inorganic nanoparticles stabilized in -vinyl caprolactam based microgels for various applications.. <i>RSC Advances</i> , 2020 , 11, 978-995	3.7	3
75	Reduction of nitroarenes catalyzed by microgel-stabilized silver nanoparticles. <i>Journal of Hazardous Materials</i> , 2019 , 377, 399-408	12.8	48
74	Fundamentals and applications of acrylamide based microgels and their hybrids: a review.. <i>RSC Advances</i> , 2019 , 9, 13838-13854	3.7	9
73	Removal of Cadmium (II) from Aqueous Medium Using Vigna radiata Leave Biomass: Equilibrium Isotherms, Kinetics and Thermodynamics. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019 , 233, 669-690	3.1	2
72	Extraction of Heavy Metals from Aqueous Medium by Husk Biomass: Adsorption Isotherm, Kinetic and Thermodynamic study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019 , 233, 201-223	3.1	23
71	Facile synthesis of hydrogel-nickel nanoparticle composites and their applications in adsorption and catalysis. <i>Pure and Applied Chemistry</i> , 2019 , 91, 1567-1582	2.1	8
70	Synthesis and characterization of magnetic poly(acrylic acid) hydrogel fabricated with cobalt nanoparticles for adsorption and catalytic applications. <i>Journal of the Iranian Chemical Society</i> , 2019 , 16, 2765-2776	2	8
69	Methanol as hydrogen source: Chemoselective transfer hydrogenation of α -unsaturated ketones with a rhodacycle. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1795-1799	11.3	9
68	Catalytic reduction of toxic dyes in the presence of silver nanoparticles impregnated core-shell composite microgels. <i>Journal of Cleaner Production</i> , 2019 , 211, 855-864	10.3	59
67	Forensic Discrimination Potential of Blue, Black, Green, and Red Colored Fountain Pen Inks Commercially Used in Pakistan, by UV/Visible Spectroscopy, Thin Layer Chromatography, and Fourier Transform Infrared Spectroscopy. <i>International Journal of Analytical Chemistry</i> , 2019 , 2019, 5980967	1.4	6
66	Enhanced catalysis of gold nanoparticles in microgels upon on site altering the gold-polymer interface interaction. <i>Journal of Catalysis</i> , 2019 , 369, 462-468	7.3	24
65	Adsorptive removal of heavy metal ions using polystyrene-poly(N-isopropylmethacrylamide-acrylic acid) core/shell gel particles: Adsorption isotherms and kinetic study. <i>Journal of Molecular Liquids</i> , 2019 , 277, 522-531	6	61
64	Facile synthesis of silver nanoparticles in a crosslinked polymeric system by in situ reduction method for catalytic reduction of 4-nitroaniline. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 2027-2036	2.6	49
63	Microgels as efficient adsorbents for the removal of pollutants from aqueous medium. <i>Reviews in Chemical Engineering</i> , 2019 , 35, 285-309	5	14
62	Synthesis and characterization of CO ₂ -sensitive temperature-responsive catalytic poly(ionic liquid) microgels. <i>Polymer Chemistry</i> , 2018 , 9, 2887-2896	4.9	8

61	Advancement in Multi-Functional Poly(styrene)-Poly(N-isopropylacrylamide) Based CoreShell Microgels and their Applications. <i>Polymer Reviews</i> , 2018 , 58, 288-325	14	35
60	Engineering of responsive polymer based nano-reactors for facile mass transport and enhanced catalytic degradation of 4-nitrophenol. <i>Journal of Environmental Sciences</i> , 2018 , 72, 43-52	6.4	30
59	A systematic study for removal of heavy metals from aqueous media using Sorghum bicolor: an efficient biosorbent. <i>Water Science and Technology</i> , 2018 , 77, 2355-2368	2.2	12
58	Applications of UV/Vis Spectroscopy in Characterization and Catalytic Activity of Noble Metal Nanoparticles Fabricated in Responsive Polymer Microgels: A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2018 , 48, 503-516	5.2	66
57	Removal of Congo red dye from aqueous medium by its catalytic reduction using sodium borohydride in the presence of various inorganic nano-catalysts: A review. <i>Journal of Cleaner Production</i> , 2018 , 187, 296-307	10.3	127
56	Designed synthesis of silver nanoparticles in responsive polymeric system for their thermally tailored catalytic activity towards hydrogenation reaction. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 1099-1107	2.8	20
55	Synthesis and characterization of inorganicorganic polymer microgels for catalytic reduction of 4-nitroaniline in aqueous medium. <i>Polymer Composites</i> , 2018 , 39, 645-653	3	38
54	Polyaniline/silver decorated-MWCNT composites with enhanced electrical and thermal properties. <i>Polymer Composites</i> , 2018 , 39, E1346-E1353	3	13
53	Platinum nanoparticles fabricated multiresponsive microgel composites: Synthesis, characterization, and applications. <i>Polymer Composites</i> , 2018 , 39, 2167-2180	3	23
52	Copper and cobalt nanoparticles containing poly(acrylic acid-co-acrylamide) hydrogel composites for rapid reduction of 4-nitrophenol and fast removal of malachite green from aqueous medium. <i>Polymer Composites</i> , 2018 , 39, 3187-3198	3	28
51	Preparation of magnetic microgels for catalytic reduction of 4-nitrophenol and removal of methylene blue from aqueous medium. <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 863-874	3.3	27
50	Poly(N-isopropylmethacrylamide-acrylic acid) microgels as adsorbent for removal of toxic dyes from aqueous medium. <i>Journal of Molecular Liquids</i> , 2018 , 268, 229-238	6	22
49	Silver Nanoparticles Engineered Polystyrene-Poly(N-isopropylmethacrylamide-acrylic acid) Core Shell Hybrid Polymer Microgels for Catalytic Reduction of Congo Red. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800211	2.6	30
48	Physicochemical Study of Some Thiobarbiturate Derivatives and Their Interaction with DNA in Aqueous Media. <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 1987-1995	0.7	0
47	Synthesis and characterization of poly(N-isopropylmethacrylamide-co-acrylic acid) microgels for in situ fabrication and stabilization of silver nanoparticles for catalytic reduction of o-nitroaniline in aqueous medium. <i>Reactive and Functional Polymers</i> , 2018 , 132, 89-97	4.6	31
46	Synthesis and Characterization of pH-Responsive OrganicInorganic Hybrid Material with Excellent Catalytic Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 1872-1884	3.2	15
45	Temperature-responsive hybrid microgels for catalytic applications: a review. <i>Materials Science and Technology</i> , 2017 , 33, 129-137	1.5	43
44	Catalytic reduction of 2-nitroaniline: a review. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 6446-6460	5.1	72

43	Partitioning of thiophene derivatives between solvent and micellar media of cationic surfactant, cetyl trimethyl ammonium bromide. <i>Journal of Molecular Liquids</i> , 2017 , 240, 389-394	6	3
42	Partitioning of reactive yellow 86 between aqueous and micellar media studied by differential absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 697-703	0.9	8
41	Synthesis, characterization and physicochemical investigation of chitosan-based multi-responsive Copolymeric hydrogels. <i>Journal of Polymer Research</i> , 2017 , 24, 1	2.7	10
40	Catalytic reduction of 4-nitrophenol using silver nanoparticles-engineered poly(N-isopropylacrylamide-co-acrylamide) hybrid microgels. <i>Applied Organometallic Chemistry</i> , 2017 , 31, e3563	3.1	81
39	Stability of poly(N-isopropylacrylamide-co-acrylic acid) polymer microgels under various conditions of temperature, pH and salt concentration. <i>Arabian Journal of Chemistry</i> , 2017 , 10, 329-335	5.9	49
38	Green synthesis, characterization and biological activities of silver nanoparticles using the bark extract of <i>Ailanthus altissima</i> . <i>Materials Science-Poland</i> , 2017 , 36, 21-26	0.6	6
37	Microgels: Smart Polymer and Hybrid 2017 , 917-931		
36	Engineering of silver nanoparticle fabricated poly (N-isopropylacrylamide-co-acrylic acid) microgels for rapid catalytic reduction of nitrobenzene. <i>Journal of Polymer Engineering</i> , 2016 , 36, 87-96	1.4	43
35	Fabrication of silver nanoparticles in pH responsive polymer microgel dispersion for catalytic reduction of nitrobenzene in aqueous medium. <i>Russian Journal of Physical Chemistry A</i> , 2016 , 90, 2600-2608	0.7	27
34	Poly(N-isopropylacrylamide-acrylic acid) copolymer microgels for various applications: A review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016 , 65, 841-852	3	32
33	Kinetics and mechanism of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacrylamide-co-allylacetic acid) hybrid microgels. <i>Materials Chemistry and Physics</i> , 2016 , 171, 318-327	4.4	48
32	A review of responsive hybrid microgels fabricated with silver nanoparticles: synthesis, classification, characterization and applications. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 77, 497-515	2.3	66
31	Review on synthesis, properties, characterization, and applications of responsive microgels fabricated with gold nanostructures. <i>Reviews in Chemical Engineering</i> , 2016 , 32,	5	28
30	Bioinspired synthesis of poly(phenylboronic acid) microgels with high glucose selectivity at physiological pH. <i>Polymer Chemistry</i> , 2016 , 7, 6500-6512	4.9	8
29	Simultaneous catalytic reduction of nitroarenes using silver nanoparticles fabricated in poly(N-isopropylacrylamide-acrylic acid-acrylamide) microgels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 511, 17-26	5.1	78
28	Synthesis and characterization of responsive poly(anionic liquid) microgels. <i>Polymer Chemistry</i> , 2016 , 7, 5463-5473	4.9	14
27	Physical chemistry of catalytic reduction of nitroarenes using various nanocatalytic systems: past, present, and future. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	67
26	Temperature-Responsive Poly(N-Isopropylacrylamide-Acrylamide-Phenylboronic Acid) Microgels for Stabilization of Silver Nanoparticles. <i>Journal of Dispersion Science and Technology</i> , 2015 , 36, 423-429	1.5	24

25	Effect of acrylic acid feed contents of microgels on catalytic activity of silver nanoparticles fabricated hybrid microgels. <i>Turkish Journal of Chemistry</i> , 2015 , 39, 96-107	1	34
24	Fabrication of silver nanoparticles in poly (N-isopropylacrylamide-co-allylacetic acid) microgels for catalytic reduction of nitroarenes. <i>Turkish Journal of Chemistry</i> , 2015 , 39, 576-588	1	32
23	Formation of self-ordered porous anodized alumina template for growing tungsten trioxide nanowires. <i>International Nano Letters</i> , 2015 , 5, 37-41	5.7	6
22	Catalytic Reduction of 2-Nitroaniline in Aqueous Medium Using Silver Nanoparticles Functionalized Polymer Microgels. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015 , 25, 1554-1568 ^{3,2}		58
21	Poly(N-isopropylacrylamide-co-methacrylic acid) microgel stabilized copper nanoparticles for catalytic reduction of nitrobenzene. <i>Materials Science-Poland</i> , 2015 , 33, 627-634	0.6	17
20	Fabrication of Ag and Ni Nanocatalyst with Enhanced Efficiency. <i>Journal of Chemistry</i> , 2015 , 2015, 1-4	2.3	1
19	Synthesis, characterization and fabrication of copper nanoparticles in N-isopropylacrylamide based co-polymer microgels for degradation of p-nitrophenol. <i>Materials Science-Poland</i> , 2015 , 33, 185-192	0.6	28
18	Effect of crosslinker feed content on catalytic activity of silver nanoparticles fabricated in multiresponsive microgels. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 1674-1680	2.8	46
17	A New Triterpene Glycoside from <i>Fagonia cretica</i> . <i>Asian Journal of Chemistry</i> , 2014 , 26, 7386-7388	0.4	2
16	Cobalt and nickel nanoparticles fabricated p(NIPAM-co-MAA) microgels for catalytic applications. <i>E-Polymers</i> , 2014 , 14, 313-321	2.7	37
15	Silver nanoparticles containing hybrid polymer microgels with tunable surface plasmon resonance and catalytic activity. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 2030-2036	2.8	61
14	Thermodynamics of Adsorption and Micellization of Triblock Copolymers of Oxyethylene and Oxybutylene in Aqueous Medium Using Surface Tensiometry. <i>Journal of Dispersion Science and Technology</i> , 2013 , 34, 400-405	1.5	2
13	Synthesis, Characterization, and Silver Nanoparticles Fabrication in N-isopropylacrylamide-Based Polymer Microgels for Rapid Degradation of p-Nitrophenol. <i>Journal of Dispersion Science and Technology</i> , 2013 , 34, 1324-1333	1.5	49
12	A COMPARATIVE STUDY OF THERMODYNAMIC PROPERTIES OF STRUCTURALLY RELATED PHENOTHIAZINE DRUGS IN AQUEOUS SOLUTION. <i>Journal of the Chilean Chemical Society</i> , 2013 , 58, 1842-1845 ¹⁵		
11	Associative properties of hydrophilic tip modified oxyethylene-oxybutylene diblock copolymers in aqueous media: Effect of end-group. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 951-957	2.9	11
10	Synthesis and characterization of p(NIPAM-AA-AAm) microgels for tuning of optical Properties of silver nanoparticles. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	51
9	Interactions of Ionic Surfactants With PEO-PBO-PEO Triblock Copolymers in Aqueous Solutions. <i>Journal of Dispersion Science and Technology</i> , 2012 , 33, 191-199	1.5	4
8	Temperature-induced volume change and glucose sensitivity of poly[(N-isopropylacrylamide)-co-acrylamide-co-(phenylboronic acid)] microgels. <i>Polymer International</i> , 2011 , 60, 1481-1486	3.3	33

7	Engineering of Phenylboronic Acid Based Glucose-Sensitive Microgels with 4-Vinylpyridine for Working at Physiological pH and Temperature. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 1510-1514	2,6	49
6	Pyrolysis of juice-squeezed grapefruit waste: effect of nickel oxide on kinetics and bio-oil yield. <i>International Journal of Environmental Science and Technology</i> ,1	3,3	1
5	Fluoride removal using simple protonated and xanthate modified protonated Ficus religiosa branch powder in a fixed-bed column150, 204-212		3
4	Production of Liquid Fuel from Polystyrene Waste: Process Optimization and Characterization of Pyrolyzates. <i>Combustion Science and Technology</i> ,1-14	1,5	2
3	Solubilization of direct black 2 in mixed micellar media: insights from spectroscopic and conductometric measurements. <i>Journal of Dispersion Science and Technology</i> ,1-10	1,5	2
2	Pyrolysis of almond shells waste: effect of zinc oxide on kinetics and product distribution. <i>Biomass Conversion and Biorefinery</i> ,1	2,3	12
1	Microgels: Smart Polymer and Hybrid4701-4715		