Altaf H Basta

List of Publications by Citations

97 papers	1,554 citations	24 h-index	36 g-index
102 ext. papers	1,864 ext. citations	4.1 avg, IF	5.06 L-index

#	Paper	IF	Citations
97	Rice straw as precursor of activated carbons: activation with ortho-phosphoric acid. *Journal of Hazardous Materials*, **2010**, 181, 27-34	12.8	105
96	Research Progress in Friendly Environmental Technology for the Production of Cellulose Products (Bacterial Cellulose and Its Application). *Polymer-Plastics Technology and Engineering*, **2004**, 43, 797-820		105
95	Chitosan-caseinate bilayer coatings for paper packaging materials. *Carbohydrate Polymers*, **2014**, 99, 508-16	10.3	85
94	Selected properties of particleboard panels manufactured from rice straws of different geometries. *Bioresource Technology*, **2010**, 101, 4662-6	11	84
93	Performance of improved bacterial cellulose application in the production of functional paper. *Journal of Applied Microbiology*, **2009**, 107, 2098-107	4.7	76
92	Effect of oxalic acid and steam pretreatment on the primary properties of UF-bonded rice straw particleboards. *Industrial Crops and Products*, **2011**, 33, 665-669	5.9	41
91	Cellulose membranes for reverse osmosis Part I. RO cellulose acetate membranes including a composite with polypropylene. *Desalination*, **2003**, 159, 171-181	10.3	41
90	Evaluation of some organic-based biopolymers as green inhibitors for calcium sulfate scales. *The Environmentalist*, **2008**, 28, 421-428		38
89	Properties of modified carboxymethyl cellulose and its use as bioactive compound. *Carbohydrate Polymers*, **2016**, 153, 641-651	10.3	37
88	Evaluation of Rice Straw-Based Hydrogels for Purification of Wastewater. *Polymer-Plastics Technology and Engineering*, **2013**, 52, 1074-1080		35
87	Optical, electrical and mechanical studies of paper sheets coated by metals (Cu and Ag) via pulsed laser deposition. *Journal of Molecular Structure*, **2019**, 1198, 126927	3.4	34
86	Fluorescence behavior of new 3-pyridinecarbonitrile containing compounds and their application in security paper. *Dyes and Pigments*, **2002**, 54, 1-10	4.6	34
85	Preformed Amide-containing biopolymer for Improving the Environmental Performance of Synthesized Ureaformaldehyde in Agro-fiber Composites. *Journal of Polymers and the Environment* , **2011**, 19, 405-412	4.5	31
84	New approach for utilization of cellulose derivatives metal complexes in preparation of durable and permanent colored papers. *Carbohydrate Polymers*, **2008**, 74, 301-308	10.3	31
83	Metal chelates with some cellulose derivatives. Part III. Synthesis and structural chemistry of nickel (II) and copper (II) complexes with carboxymethyl cellulose. *Polymer International*, **1995**, 37, 93-96	3.3	31
82	Influence of coating by Cu and Ag nanoparticles via pulsed laser deposition technique on optical, electrical and mechanical properties of cellulose paper. *Journal of Molecular Structure*, **2020**, 1203, 127472	3.4	31
81	Performance assessment of deashed and dewaxed rice straw on improving the quality of RS-based composites. *RSC Advances*, **2014**, 4, 21794-21801	3.7	30

80	Performance of rice straw-based composites using environmentally friendly polyalcoholic polymers-based adhesive system. *Pigment and Resin Technology*, **2013**, 42, 24-33	1	30
79	Metal Chelates with Some Cellulose Derivatives: V. Synthesis and Characterization of Some Iron(III) Complexes with Cellulose Ethers. *Polymer International*, **1997**, 42, 157-162	3.3	30
78	Behaviour of Rice-Byproducts and Optimizing the Conditions for Production of High Performance Natural Fiber Polymer Composites. *Journal of Polymers and the Environment*, **2012**, 20, 838-847	4.5	29
77	Efficient treatment of rice byproducts for preparing high-performance activated carbons. *Journal of Cleaner Production*, **2019**, 207, 284-295	10.3	29
76	Metal Chelates with Some Cellulose Derivatives. II. Preparation and Characterization of Co(II)-CMC Complexes. *Polymer-Plastics Technology and Engineering*, **1994**, 33, 781-791		26
75	Comparative evaluation for controlling release of niacin from protein- and cellulose-chitosan based hydrogels. *International Journal of Biological Macromolecules*, **2020**, 150, 228-237	7.9	24
74	Optimizing the route for production of activated carbon from fruit waste. *Royal Society Open Science*, **2018**, 5, 171578	3.3	24
73	Metal chelates with some cellulose derivatives. Part I. Preparation and characterization of chromium (III)–carboxymethyl cellulose complexes. *Polymer International*, **1994**, 35, 27-33	3.3	24
72	Green carboxymethyl cellulose-silver complex versus cellulose origins in biological activity applications. *International Journal of Biological Macromolecules*, **2018**, 107, 1364-1372	7.9	24
71	Preparation, Characterization and Properties of Paper Sheets Made from Chemically Modified Wood Pulp Treated with Metal Salts. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **1998**, 42, 1-26	3	23
70	Enhancing environmental performance of formaldehyde-based adhesives in lignocellulosic composites, part III: evaluation of some starch derivatives. *Designed Monomers and Polymers*, **2006**, 9, 325-347	3.1	22
69	Comparative study on the performance of carbon nanotubes prepared from agro- and xerogels as carbon supports. *Journal of Analytical and Applied Pyrolysis*, **2017**, 128, 114-120	6	19
68	Synthesis of fluorescence active pyridinedicarbonitriles and studying their application in functional paper. *Materials Letters*, **2011**, 65, 1713-1718	3.3	17
67	Synthesis, quantitative structure-property relationship study of novel fluorescence active 2-pyrazolines and application. *Royal Society Open Science*, **2018**, 5, 171964	3.3	15
66	Hydroxyethyl Cellulose. II. IR Spectra and Their Relation with the Dielectric Properties of Hydroxyethyl Celluloses. *Polymer-Plastics Technology and Engineering*, **1994**, 33, 161-174		15
65	Novel approach for synthesizing different shapes of carbon nanotubes from rice straw residue. *Journal of Environmental Chemical Engineering*, **2018**, 6, 6263-6274	6.8	15
64	Enhancing the performance of carboxymethyl cellulose by chitosan in producing barrier coated paper sheets. *Nordic Pulp and Paper Research Journal*, **2015**, 30, 617-625	1.1	14
63	Some Semiconductor Properties of Carboxymethyl Cellulose-Copper Complexes. *Polymer-Plastics Technology and Engineering*, **1999**, 38, 1095-1105		14

62	High Water Absorbents from Lignocelluloses. II. Novel Soil Conditioners for Sandy Soil from Lignocellulosic Wastes. *Polymer-Plastics Technology and Engineering*, **2004**, 43, 779-795		12
61	HIGH WATER ABSORBENTS FROM LIGNOCELLULOSES. I. EFFECT OF REACTION VARIABLES ON THE WATER ABSORBENCY OF POLYMERIZED LIGNOCELLULOSES. *Polymer-Plastics Technology and Engineering*, **2000**, 39, 905-926		12
60	Metal chelates with some cellulose derivatives; part IV. Structural chemistry of HEC complexes. *Cellulose*, **1996**, 3, 1-10	5.5	12
59	Kinetic Studies on the Pyrolytic Degradation of Phenolic Resin Paper Sheets Using DTA Technique. I. Phenolic Resins as Beater Additives. *Polymer-Plastics Technology and Engineering*, **1994**, 33, 135-147		12
58	Optimizing the chitosan-cellulose based drug delivery system for controlling the ciprofloxacin release versus organic/inorganic crosslinker, characterization and kinetic study. *International Journal of Biological Macromolecules*, **2020**, 165, 1496-1506	7.9	12
57	Performance of Carbon Xerogels in the Production of Environmentally Friendly Urea Formaldehyde-Bagasse Composites. *Clean - Soil, Air, Water*, **2017**, 45, 1600524	1.6	11
56	Comparative evaluation of xerogel-based activated carbons synthesized from aliphatic aldehydes of different chain lengths. *Soft Materials*, **2016**, 14, 297-308	1.7	11
55	Novel fluorescent security marker. Part II: application of novel 6-alkoxy-2-amino-3,5-pyridinedicarbonitrile nanoparticles in safety paper. *RSC Advances*, **2014**, 4, 59614-59625	3.7	10
54	Formaldehyde-Free Environmentally Friendly Composites Based on Agricultural Waste. I. Novel Adhesive System. *Polymer-Plastics Technology and Engineering*, **2004**, 43, 745-777		9
53	Synthesis and evaluation of protein-based biopolymer in production of silver nanoparticles as bioactive compound versus carbohydrates-based biopolymers. *Royal Society Open Science*, **2020**, 7, 200928	3.3	9
52	High Water Absorbents from Lignocelluloses. Part III: Upgrading the Utilization of Old Newspaper [ONP] in Agronomic Application. *Polymer-Plastics Technology and Engineering*, **2007**, 46, 311-319		8
51	The Role of Chitosan in Improving the Ageing Resistance of Rosin Sized Paper. *Restaurator*, **2003**, 24,	0	8
50	CHARACTERIZATION OF POLYMER COMPLEXES BY THERMAL AND IR SPECTRAL ANALYSES. *Polymer-Plastics Technology and Engineering*, **2000**, 39, 887-904		8
49	The role of side chain of amino acid on performance of their conjugates with carboxymethyl cellulose and their Pd(II) complexes as bioactive agents. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2020**, 69, 21-31	3	8
48	Bio-chemical properties of sandy calcareous soil treated with rice straw-based hydrogels. *Journal of the Saudi Society of Agricultural Sciences*, **2016**, 15, 188-194	3.3	7
47	Optimising the process for production of high performance bagasse-based composites from rice bran-UF adhesive system. *Pigment and Resin Technology*, **2014**, 43, 212-218	1	7
46	Some Properties of Wood Pulp-Polymer Complexes Paper Sheets. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **1997**, 36, 131-149	3	7
45	Comparative DFT Computational Studies with Experimental Investigations for Novel Synthesized Fluorescent Pyrazoline Derivatives. *Journal of Fluorescence*, **2018**, 28, 913-931	2.4	7

44	Comparison of the benzene sorption properties of metal organic frameworks: influence of the textural properties. *Environmental Sciences: Processes and Impacts*, **2019**, 21, 407-412	4.3	6
43	Integrated Study of the Potential Application of Remediated CCA Treated Spruce Wood in MDF Production. *Industrial & Engineering Chemistry Research*, **2013**, 52, 8962-8968	3.9	6
42	The rheological properties of paper coating suspension and its application. Part 1: the influence of solid content and ionic strength on flow properties. *Pigment and Resin Technology*, **1996**, 25, 15-24	1	6
41	Enhanced transport properties and thermal stability of agro-based RO-membrane for desalination of brackish water. *Journal of Membrane Science*, **2008**, 310, 208-218	9.6	6
40	Enhancing Environmental Performance of Formaldehyde-Based Adhesives in Lignocellulosic Composites. *Polymer-Plastics Technology and Engineering*, **2004**, 43, 821-845		6
39	Permanence of Paper 1. Problems and Permanency of Alum-Rosin Sized. Paper Sheets from Wood Pulp. *Restaurator*, **1998**, 19,	0	6
38	Utilization of Waste Paper in the Manufacture of Natural Rubber Composite for Radiation Shielding. *Progress in Rubber, Plastics and Recycling Technology*, **2004**, 20, 287-310	1.7	5
37	Cellulose membranes for reverse osmosis part II. Improving RO membranes prepared from non-woody cellulose. *Desalination*, **2003**, 159, 183-196	10.3	5
36	Some aspects of the rheological properties of paper coating suspension and its application: 2. Influence of pigment composition, binder level, co-binder and simple electrolytes on flow properties. *Polymer*, **1995**, 36, 4267-4274	3.9	5
35	Designing microporous activated carbons from biomass for carbon dioxide adsorption at ambient temperature. A comparison between bagasse and rice by-products. *Journal of Cleaner Production*, **2021**, 294, 126260	10.3	5
34	LIGNOCELLULOSIC MATERIALS IN BUILDING ELEMENTS. PART IV. ECONOMICAL MANUFACTURE AND IMPROVEMENT OF PROPERTIES OF LIGHT-WEIGHT AGRO-PANELS. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2004**, 53, 709-723	3	4
33	Performance of Improved Polyvinyl alcohol as an Ageing Resistance Agent. *Restaurator*, **2004**, 25,	0	4
32	Novel Beater Additives for Paper. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2001**, 50, 185-205	3	4
31	Permanence of Paper 2: Correlation Between Permanence of Paper Made from Straw Pulps and Ageing Variables. *Restaurator*, **2000**, 21,	0	4
30	Grafting of Some Carbohydrates with Multi-Group Chelating Monomer. *Journal of Carbohydrate Chemistry*, **1999**, 18, 585-602	1.7	4
29	Properties of Medium-Density Fiberboards from Bagasse Digested with Different Retention Times. *Forest Products Journal*, **2012**, 62, 400-405	0.6	4
28	Ionic xanthate method of grafting. Part 1. *Nordic Pulp and Paper Research Journal*, **1991**, 6, 184-190	1.1	4
27	Utilization of bacteria in rotten Guava for production of bacterial cellulose from isolated and protein waste. *Carbohydrate Polymer Technologies and Applications*, **2021**, 2, 100076	1.7	4

26	Liquid crystal behavior of cellulose nanoparticles-ethyl cellulose composites: Preparation, characterization, and rheology. *Journal of Applied Polymer Science*, **2021**, 138, 50067	2.9	4
25	The role of fire retardant-polyvinyl alcohol systems on enhancing the performance of paper sheets toward ageing and counterfeiting. *Nordic Pulp and Paper Research Journal*, **2017**, 32, 415-420	1.1	3
24	Properties of paper sheets prepared from in-situ synthesis of cuprite in wood pulp fibers. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2002**, 51, 325-349	3	3
23	Bioactivity evaluation of amino acid-conjugates with protein versus cellulose based conjugates and extracted flavonoids. *Journal of Drug Delivery Science and Technology*, **2020**, 60, 101924	4.5	3
22	Novel trends for synthesis of carbon nanostructures from agricultural wastes **2020**, 59-74		2
21	Lignocellulosic materials in building elements. Part III. Recycled newsprint waste paper in manufacturing light-weight agro-gypsum panels. *Pigment and Resin Technology*, **2002**, 31, 160-170	1	2
20	Spectral and Thermal Analyses of a Novel Cellulose Derivative Propionic Acid Hydrazide-3-(OCellulose) and its Combination with Some Metal Ions. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **1999**, 44, 1-29	3	2
19	Effects of denaturisation of rice bran and route of synthesis of RB-modified UF adhesive system on eco-performance of agro-based composites. *Pigment and Resin Technology*, **2016**, 45, 172-183	1	2
18	Effective treatment for environmental enhancing the performance of undesirable agro-waste in production of carbon nanostructures as adsorbent. *Journal of Applied Polymer Science*, **2021**, 138, 50350	2.9	2
17	Role of pulping process as synergistic treatment on performance of agro-based activated carbons. *Royal Society Open Science*, **2019**, 6, 190579	3.3	1
16	Electiveness of agro-pulping process in the sustainable production of black liquor-based activated carbons. *Royal Society Open Science*, **2019**, 6, 190173	3.3	1
15	New Approach for Securing and Dating Valuable Printed Documents. *Global Challenges*, **2019**, 3, 1800097	4.3	1
14	Assessment of carbohydrate derivatives as synergistic with carbon materials in production environmentally friendly agro-based composites. *Composites Communications*, **2019**, 16, 94-105	6.7	1
13	Hydroxyethyl Cellulose. I. Variables Affecting the Hydroxyethylation Reaction. *Polymer-Plastics Technology and Engineering*, **1993**, 32, 415-430		1
12	Comparative Study of the Kinetic Degradation of Differently Decrystallized Cotton Linters Using Nonisothermal DTA Curves. *Polymer-Plastics Technology and Engineering*, **1993**, 32, 321-341		1
11	Valorization of Biomass Pulping Waste as Effective Additive for Enhancing the Performance of Films Based on Liquid Crystal Hydroxypropyl-Cellulose Nanocomposites. *Waste and Biomass Valorization*,1	3.2	1
10	Comparison of Copper-crosslinked Carboxymethyl Cellulose Versus Biopolymer-based Hydrogels for Controlled Release of Fertilizer. *Polymer-Plastics Technology and Materials*,1-14	1.5	1
9	Synthesis, Characterization, Speciation, and Biological Studies on Metal Chelates of Carbohydrates with Molecular Docking Investigation. *Macromolecular Materials and Engineering*, **2021**, 306, 2000633	3.9	1

8	Hydroxypropylcellulose-based liquid crystal materials. *Carbohydrate Polymer Technologies and Applications*, **2021**, 2, 100103	1.7	1
7	Synthesis and evaluating of carbon nanoallotrope-biomacromolecule gel composites as drug delivery systems. *Journal of Applied Polymer Science*, **2021**, 138, 50830	2.9	0
6	Evaluation of palm fiber components an alternative biomass wastes for medium density fiberboard manufacturing. *Maderas: Ciencia Y Tecnologia*, **2018**, 0-0	1	0
5	Nanotechnologies for Production of High Performance Cellulosic Paper. *Advanced Structured Materials*, **2015**, 137-172	0.6	
4	Performance of glyoxal-resorcinol-based aqua gel and its activated carbon for the production of environmental-friendly bagasse composites. *European Journal of Wood and Wood Products*, **2019**, 77, 1201-1210	2.1	
3	Manufacturing of Rice Waste-Based Natural Fiber Polymer Composites from Thermosetting vs. Thermoplastic Matrices **2017**, 241-262		
2	Sesbania aegyptiaca as promising biomass for manufacturing of MDF. *Wood Material Science and Engineering*, **2014**, 9, 49-57	1.9	
1	Ionic Xanthate Method of Grafting. II. *Polymer-Plastics Technology and Engineering*, **1995**, 34, 917-934		