

# Pankaj Attri

## 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.

117 papers	4,545 citations	38 h-index	64 g-index
129 ext. papers	5,159 ext. citations	3.8 avg, IF	5.94 L-index

#	Paper	IF	Citations
117	Improved luminescence performance of Yb <sup>3+</sup> -Er <sup>3+</sup> -Zn <sup>2+</sup> : Y <sub>2</sub> O <sub>3</sub> phosphor and its application to solar cells. <i>Optical Materials</i> , <b>2022</b> , 123, 111928	3.3	0
116	Outcomes of Pulsed Electric Fields and Nonthermal Plasma Treatments on Seed Germination and Protein Functions. <i>Agronomy</i> , <b>2022</b> , 12, 482	3.6	0
115	The increase in diffraction efficiency of an azobenzene side-chain polymer using imidazolium and ammonium ionic liquids. <i>Journal of Saudi Chemical Society</i> , <b>2022</b> , 101485	4.3	
114	Time of Flight Size Control of Carbon Nanoparticles Using Ar+CH <sub>4</sub> Multi-Hollow Discharge Plasma Chemical Vapor Deposition Method. <i>Processes</i> , <b>2021</b> , 9, 2	2.9	1
113	Impact of atmospheric pressure plasma treated seeds on germination, morphology, gene expression and biochemical responses. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 040502	1.4	8
112	Transition Metal Oxides and Their Composites for Photocatalytic Dye Degradation. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 82	3	11
111	Highly efficient and transparent counter electrode for application in bifacial solar cells. <i>Chemical Physics Letters</i> , <b>2021</b> , 768, 138369	2.5	5
110	Changes in the physical properties of low bandgap polymer after interaction with ionic liquids. <i>Journal of Saudi Chemical Society</i> , <b>2021</b> , 25, 101227	4.3	2
109	Impact of seed color and storage time on the radish seed germination and sprout growth in plasma agriculture. <i>Scientific Reports</i> , <b>2021</b> , 11, 2539	4.9	12
108	Possible impact of plasma oxidation on the structure of the C-terminal domain of SARS-CoV-2 spike protein: a computational study. <i>Applied Physics Express</i> , <b>2021</b> , 14, 027002	2.4	7
107	Green route for ammonium nitrate synthesis: fertilizer for plant growth enhancement.. <i>RSC Advances</i> , <b>2021</b> , 11, 28521-28529	3.7	2
106	Cocktail of reactive species generated by cold atmospheric plasma: oral administration induces non-small cell lung cancer cell death. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 185202	3	7
105	Alterations of DNA Methylation Caused by Cold Plasma Treatment Restore Delayed Germination of Heat-Stressed Rice ( <i>Oryza sativa</i> L.) Seeds. <i>ACS Agricultural Science and Technology</i> , <b>2021</b> , 1, 5-10		8
104	Plasma treatment causes structural modifications in lysozyme, and increases cytotoxicity towards cancer cells. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 182, 1724-1736	7.9	11
103	Effects of concentrated light on the performance and stability of a quasi-solid electrolyte in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , <b>2021</b> , 781, 138986	2.5	2
102	Effect of plasma-induced oxidative stress on the glycolysis pathway of <i>Escherichia coli</i> . <i>Computers in Biology and Medicine</i> , <b>2020</b> , 127, 104064	7	3
101	Impact of radish sprouts seeds coat color on the electron paramagnetic resonance signals after plasma treatment. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SHHF01	1.4	13

100	Influence of osmolytes and ionic liquids on the Bacteriorhodopsin structure in the absence and presence of oxidative stress: A combined experimental and computational study. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 148, 657-665	7.9	9
99	Plasma Treatment Effect on the Paramagnetic Species of Barley Seed Radical <sup>S</sup> Intensity: An EPR Study. <i>Plasma Medicine</i> , <b>2020</b> , 10, 159-168	1.1	3
98	Structural modification of NADPH oxidase activator (Noxa 1) by oxidative stress: An experimental and computational study. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 163, 2405-2414	7.9	9
97	Carbon Nanotubes (CNTs): A Potential Nanomaterial for Water Purification. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 135	3	19
96	Plasma Agriculture from Laboratory to Farm: A Review. <i>Processes</i> , <b>2020</b> , 8, 1002	2.9	52
95	Influence of alkyl chain substitution of ammonium ionic liquids on the activity and stability of tobacco etch virus protease. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 155, 439-446	7.9	5
94	The role of UV photolysis and molecular transport in the generation of reactive species in a tissue model with a cold atmospheric pressure plasma jet. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 093701	3.4	47
93	Perspectives of Plasma-treated Solutions as Anticancer Drugs. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2019</b> , 19, 436-438	2.2	12
92	Enhancement of cellular glucose uptake by reactive species: a promising approach for diabetes therapy.. <i>RSC Advances</i> , <b>2018</b> , 8, 9887-9894	3.7	7
91	Impact of Gamma rays and DBD plasma treatments on wastewater treatment. <i>Scientific Reports</i> , <b>2018</b> , 8, 2926	4.9	27
90	Bacterial inactivation by plasma treated water enhanced by reactive nitrogen species. <i>Scientific Reports</i> , <b>2018</b> , 8, 11268	4.9	75
89	Effect of Ionic Liquids on the Physical Properties of the Newly Synthesized Conducting Polymer. <i>International Journal of Polymer Science</i> , <b>2018</b> , 2018, 1-8	2.4	106
88	Inactivation of human pancreatic ductal adenocarcinoma with atmospheric plasma treated media and water: a comparative study. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 255401	3	17
87	Bionanocomposites: Green materials for a sustainable future <b>2018</b> , 699-712		19
86	How Does Plasma Activated Media Treatment Differ From Direct Cold Plasma Treatment?. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2018</b> , 18, 805-814	2.2	24
85	Improvement in the diffraction efficiency of a polymer using an ionic liquid. <i>Journal of the Serbian Chemical Society</i> , <b>2018</b> , 83, 213-220	0.9	2
84	CAP modifies the structure of a model protein from thermophilic bacteria: mechanisms of CAP-mediated inactivation. <i>Scientific Reports</i> , <b>2018</b> , 8, 10218	4.9	18
83	Structural and functional analysis of lysozyme after treatment with dielectric barrier discharge plasma and atmospheric pressure plasma jet. <i>Scientific Reports</i> , <b>2017</b> , 7, 1027	4.9	37

82	Photovoltaic properties of novel thiophene- and selenophene-based conjugated low bandgap polymers: a comparative study. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 6315-6321	3.6	6
81	The protective action of osmolytes on the deleterious effects of gamma rays and atmospheric pressure plasma on protein conformational changes. <i>Scientific Reports</i> , <b>2017</b> , 7, 8698	4.9	15
80	Impact of an ionic liquid on protein thermodynamics in the presence of cold atmospheric plasma and gamma rays. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 25277-25288	3.6	13
79	Interaction studies of carbon nanomaterials and plasma activated carbon nanomaterials solution with telomere binding protein. <i>Scientific Reports</i> , <b>2017</b> , 7, 2636	4.9	16
78	Influence of Nitric Oxide generated through microwave plasma on L6 skeletal muscle cell myogenesis via oxidative signaling pathways. <i>Scientific Reports</i> , <b>2017</b> , 7, 542	4.9	11
77	Biogenic reductive preparation of magnetic inverse spinel iron oxide nanoparticles for the adsorption removal of heavy metals. <i>Chemical Engineering Journal</i> , <b>2017</b> , 307, 74-84	14.7	179
76	Triethylammonium acetate ionic liquid assisted one-pot synthesis of dihydropyrimidinones and evaluation of their antioxidant and antibacterial activities. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, 206-214	5.9	37
75	Chemical Crosslinking: Role in Protein and Peptide Science. <i>Current Protein and Peptide Science</i> , <b>2017</b> , 18, 946-955	2.8	24
74	Variation in structure of proteins by adjusting reactive oxygen and nitrogen species generated from dielectric barrier discharge jet. <i>Scientific Reports</i> , <b>2016</b> , 6, 35883	4.9	32
73	Mechanism and comparison of needle-type non-thermal direct and indirect atmospheric pressure plasma jets on the degradation of dyes. <i>Scientific Reports</i> , <b>2016</b> , 6, 34419	4.9	49
72	Cellulose: A Smart Material for Water Purification <b>2016</b> , 335-346		2
71	Printable multi-walled carbon nanotubes thin film for high performance all solid state flexible supercapacitors. <i>Materials Research Bulletin</i> , <b>2016</b> , 83, 167-171	5.1	39
70	Effects of plasma irradiation using various feeding gases on growth of <i>Raphanus sativus</i> L. <i>Archives of Biochemistry and Biophysics</i> , <b>2016</b> , 605, 129-40	4.1	44
69	The action of microsecond-pulsed plasma-activated media on the inactivation of human lung cancer cells. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 115401	3	62
68	Influence of plasma-activated compounds on melanogenesis and tyrosinase activity. <i>Scientific Reports</i> , <b>2016</b> , 6, 21779	4.9	28
67	Influence of reactive species on the modification of biomolecules generated from the soft plasma. <i>Scientific Reports</i> , <b>2015</b> , 5, 8221	4.9	77
66	Generation mechanism of hydroxyl radical species and its lifetime prediction during the plasma-initiated ultraviolet (UV) photolysis. <i>Scientific Reports</i> , <b>2015</b> , 5, 9332	4.9	263
65	A comparative study for the inactivation of multidrug resistance bacteria using dielectric barrier discharge and nano-second pulsed plasma. <i>Scientific Reports</i> , <b>2015</b> , 5, 13849	4.9	63

64	Influence of ionic liquid and ionic salt on protein against the reactive species generated using dielectric barrier discharge plasma. <i>Scientific Reports</i> , <b>2015</b> , 5, 17781	4.9	49
63	Highly Conductive Aromatic Functionalized Multi-Walled Carbon Nanotube for Inkjet Printable High Performance Supercapacitor Electrodes. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131475	3.7	32
62	Interaction Studies between Newly Synthesized Photosensitive Polymer and Ionic Liquids. <i>International Journal of Polymer Science</i> , <b>2015</b> , 2015, 1-8	2.4	2
61	Effect of nanosecond-pulsed plasma on the structural modification of biomolecules. <i>RSC Advances</i> , <b>2015</b> , 5, 47300-47308	3.7	11
60	Influence of water vapour with non-thermal plasma jet on the apoptosis of SK-BR-3 breast cancer cells. <i>RSC Advances</i> , <b>2015</b> , 5, 14670-14677	3.7	28
59	Physicochemical Properties of Polyaniline/Ionic Liquid Mixtures and Their Application in Dye-Sensitized Solar Cells. <i>Science of Advanced Materials</i> , <b>2015</b> , 7, 2583-2595	2.3	7
58	Influence of nanosecond pulsed plasma on the non-enzymatic pathway for the generation of nitric oxide from L-arginine and the modification of graphite oxide to increase the solar cell efficiency. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18375-82	3.6	7
57	Plasma modification of poly(2-heptadecyl-4-vinylthieno[3,4-d]thiazole) low bandgap polymer and its application in solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 27043-52	3.6	12
56	Unexpected effects of the alteration of structure and stability of myoglobin and hemoglobin in ammonium-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5514-26	3.6	70
55	Effect of temperature on the interactions between low bandgap polymer and ionic liquids. <i>Thermochimica Acta</i> , <b>2014</b> , 579, 15-21	2.9	11
54	Molecular interactions between carbon nanotubes and ammonium ionic liquids and their catalysis properties. <i>Materials Research Bulletin</i> , <b>2014</b> , 58, 6-9	5.1	9
53	Thermophysical properties of aqueous solution of ammonium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 5971-82	3.4	55
52	Variation in the structural changes of myoglobin in the presence of several protic ionic liquid. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 69, 114-23	7.9	41
51	Analysis of the antimicrobial effects of nonthermal plasma on fungal spores in ionic solutions. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 72, 191-9	7.8	21
50	Adhesion and differentiation of human mesenchymal stem cells on plasma-functionalized graphenes with different feeding gases. <i>Carbon</i> , <b>2014</b> , 77, 302-310	10.4	6
49	Optical and structural properties of nanobiomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 221-49	1.3	9
48	Induced apoptosis in melanocytes cancer cell and oxidation in biomolecules through deuterium oxide generated from atmospheric pressure non-thermal plasma jet. <i>Scientific Reports</i> , <b>2014</b> , 4, 7589	4.9	60
47	Influence of hydroxyl group position and temperature on thermophysical properties of tetraalkylammonium hydroxide ionic liquids with alcohols. <i>PLoS ONE</i> , <b>2014</b> , 9, e86530	3.7	34

46	Potential Antioxidant Anthraquinones Isolated from <i>Rheum emodi</i> Showing Nematicidal Activity against <i>Meloidogyne incognita</i> . <i>Journal of Chemistry</i> , <b>2014</b> , 2014, 1-9	2.3	18
45	Plasma Technology: A New Remediation for Water Purification with or without Nanoparticles <b>2014</b> , 63-77		3
44	The solubility and stability of amino acids in biocompatible ionic liquids. <i>Protein and Peptide Letters</i> , <b>2014</b> , 21, 15-24	1.9	29
43	Role of Polymer Nanocomposites in Wastewater Treatment <b>2014</b> , 139-156		2
42	Single-walled Carbon Nanotube-triethylammonium Ionic Liquid as a New Catalytic System for Michael Reaction. <i>Bulletin of the Korean Chemical Society</i> , <b>2014</b> , 35, 3035-3040	1.2	3
41	Exploring the thermal stability of $\beta$ -chymotrypsin in protic ionic liquids. <i>Process Biochemistry</i> , <b>2013</b> , 48, 462-470	4.8	59
40	Evaluation of thermophysical properties of ionic liquids with polar solvent: a comparable study of two families of ionic liquids with various ions. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 12535-48	3.4	46
39	Influence of anion on thermophysical properties of ionic liquids with polar solvent. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 58, 269-278	2.9	40
38	Effect of anion variation on the thermophysical properties of triethylammonium based protic ionic liquids with polar solvent. <i>Thermochimica Acta</i> , <b>2013</b> , 556, 75-88	2.9	52
37	A preliminary study of the effect of DBD plasma and osmolytes on T98G brain cancer and HEK non-malignant cells. <i>Molecules</i> , <b>2013</b> , 18, 4917-28	4.8	38
36	Ammonium based ionic liquids act as compatible solvents for glycine peptides. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 56, 21-31	2.9	22
35	Biomedical importance of indoles. <i>Molecules</i> , <b>2013</b> , 18, 6620-62	4.8	725
34	Elucidating interactions and conductivity of newly synthesised low bandgap polymer with protic and aprotic ionic liquids. <i>PLoS ONE</i> , <b>2013</b> , 8, e68970	3.7	16
33	Influence of reactive oxygen species on the enzyme stability and activity in the presence of ionic liquids. <i>PLoS ONE</i> , <b>2013</b> , 8, e75096	3.7	50
32	Synthetic Strategies for Free & Stable N-Heterocyclic Carbenes and Their Precursors. <i>Mini-Reviews in Organic Chemistry</i> , <b>2013</b> , 10, 180-197	1.7	6
31	Effect of polyols on the native structure of $\beta$ -chymotrypsin: A comparable study. <i>Thermochimica Acta</i> , <b>2012</b> , 536, 55-62	2.9	43
30	Thermodynamic contributions of peptide backbone unit from water to biocompatible ionic liquids at T = 298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 45, 122-136	2.9	34
29	Ammonium ionic liquids as convenient co-solvents for the structure and stability of succinylated Con A. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 52, 78-88	2.9	33

28	Water and a protic ionic liquid acted as refolding additives for chemically denatured enzymes. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 7475-8	3.9	47
27	Influence of biocompatible ammonium ionic liquids on the solubility of l-alanine and l-valine in water. <i>Fluid Phase Equilibria</i> , <b>2012</b> , 335, 39-45	2.5	26
26	TMAO and sorbitol attenuate the deleterious action of atmospheric pressure non-thermal jet plasma on $\alpha$ -chymotrypsin. <i>RSC Advances</i> , <b>2012</b> , 2, 7146	3.7	20
25	Influence of temperature on thermophysical properties of ammonium ionic liquids with N-methyl-2-pyrrolidone. <i>Thermochimica Acta</i> , <b>2012</b> , 545, 131-140	2.9	32
24	Influence of protic ionic liquids on the structure and stability of succinylated Con A. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 51, 119-28	7.9	33
23	Temperature dependence measurements and molecular interactions for ammonium ionic liquid with N-methyl-2-pyrrolidone. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 54, 223-237	2.9	39
22	Effects of atmospheric-pressure non-thermal plasma jets on enzyme solutions. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 60, 959-964	0.6	17
21	Structural basis for the enhanced stability of protein model compounds and peptide backbone unit in ammonium ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 11968-78	3.4	38
20	Influence of alkyl chain length and temperature on thermophysical properties of ammonium-based ionic liquids with molecular solvent. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 4561-74	3.4	63
19	Green methodology for the preparation of disulfide. <i>Green Chemistry Letters and Reviews</i> , <b>2012</b> , 5, 33-42	4.7	15
18	Effect of DBD plasma on human cells in presence of osmolytes and denaturant. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1469, 1		
17	Synthesis and antiproliferative activity of ammonium and imidazolium ionic liquids against T98G brain cancer cells. <i>Molecules</i> , <b>2012</b> , 17, 13727-39	4.8	40
16	Thermodynamic characterization of the biocompatible ionic liquid effects on protein model compounds and their functional groups. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 6566-75	3.6	85
15	A protic ionic liquid attenuates the deleterious actions of urea on $\alpha$ -chymotrypsin. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 17023-6	3.6	80
14	Refolding of urea-induced denaturation of model proteins by trimethylamine N-oxide. <i>Thermochimica Acta</i> , <b>2011</b> , 526, 143-150	2.9	13
13	Temperature effect on the molecular interactions between two ammonium ionic liquids and dimethylsulfoxide. <i>Journal of Molecular Liquids</i> , <b>2011</b> , 164, 218-225	6	42
12	Thermophysical properties of dimethylsulfoxide with ionic liquids at various temperatures. <i>Fluid Phase Equilibria</i> , <b>2011</b> , 304, 35-43	2.5	73
11	Activity and stability of $\alpha$ -chymotrypsin in biocompatible ionic liquids: enzyme refolding by triethyl ammonium acetate. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 2788-96	3.6	169



10	Temperature dependence measurements and structural characterization of trimethyl ammonium ionic liquids with a highly polar solvent. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 10086-97	3-4	59
9	Measurements and molecular interactions for N,N-dimethylformamide with ionic liquid mixed solvents. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 6126-33	3-4	88
8	Trehalose protects urea-induced unfolding of $\alpha$ -chymotrypsin. <i>International Journal of Biological Macromolecules</i> , <b>2010</b> , 47, 540-5	7-9	33
7	Influence of osmolytes and denaturants on the structure and enzyme activity of $\alpha$ -chymotrypsin. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 1471-8	3-4	101
6	Simple ammonium ionic liquid catalyses the 1,5-benzodiazepine derivatives under mild conditions. <i>Green Chemistry Letters and Reviews</i> , <b>2010</b> , 3, 249-256	4-7	21
5	Temperature effect on the molecular interactions between ammonium ionic liquids and N,N-dimethylformamide. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 13415-25	3-4	59
4	Triethylammonium acetate (TEAA): a recyclable inexpensive ionic liquid promotes the chemoselective aza- and thia-Michael reactions. <i>Monatshefte Für Chemie</i> , <b>2008</b> , 139, 1041-1047	1-4	37
3	Performance Characteristics of Bifacial Dye-Sensitized Solar Cells with a V-Shaped Low-Concentrating Light System. <i>ACS Applied Energy Materials</i> ,	6-1	1
2	The Effects of Spin-Coating Rate on Surface Roughness, Thickness, and Electrochemical Properties of a Pt Polymer Counter Electrode. <i>Advanced Engineering Forum</i> , <b>45</b> , 1-13	0-2	
1	Performance comparison of nitrile-based liquid electrolytes on bifacial dye-sensitized solar cells under low-concentrated light. <i>MRS Advances</i> , <b>1</b>	0-7	