

# Prasanta Kumar Behera

## List of Publications by Year in descending order

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43  
papers

1,305  
citations

331538

21  
h-index

360920

35  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1484  
citing authors

#	ARTICLE	IF	CITATIONS
1	â€œClick Chemistryâ€ in Tailor-Made Polymethacrylates Bearing Reactive Furfuryl Functionality: A New Class of Self-Healing Polymeric Material. ACS Applied Materials & Interfaces, 2009, 1, 1427-1436.	4.0	190
2	Smart â€œAll Acrylateâ€-ABA Triblock Copolymer Bearing Reactive Functionality via Atom Transfer Radical Polymerization (ATRP): Demonstration of a â€œClick Reactionâ€ in Thermoreversible Property. Macromolecules, 2010, 43, 3193-3205.	2.2	134
3	Self-Healable and Ultrahydrophobic Polyurethane-POSS Hybrids by Dielsâ€Alder â€œClickâ€ Reaction: A New Class of Coating Material. Macromolecules, 2018, 51, 4770-4781.	2.2	90
4	Self-Healable Antifouling Zwitterionic Hydrogel Based on Synergistic Phototriggered Dynamic Disulfide Metathesis Reaction and Ionic Interaction. ACS Applied Materials & Interfaces, 2018, 10, 27391-27406.	4.0	67
5	Self-healing polymeric gel via RAFT polymerization and Dielsâ€Alder click chemistry. Polymer, 2015, 69, 349-356.	1.8	59
6	Self-Healable Polyurethane Elastomer Based on Dual Dynamic Covalent Chemistry Using Dielsâ€Alder â€œClickâ€ and Disulfide Metathesis Reactions. ACS Applied Polymer Materials, 2021, 3, 847-856.	2.0	53
7	Atom Transfer Radical Polymerization of 3-Ethyl-3-(acryloyloxy)methyloxetane. Macromolecules, 2005, 38, 3596-3600.	2.2	44
8	Polyurethane with an ionic liquid crosslinker: a new class of super shape memory-like polymers. Polymer Chemistry, 2018, 9, 4205-4217.	1.9	38
9	Tailor-Made Fluorinated Copolymer/Clay Nanocomposite by Cationic RAFT Assisted Pickering Miniemulsion Polymerization. Langmuir, 2015, 31, 12472-12480.	1.6	32
10	Dualâ€Responsive Selfâ€Healable Carboxylated Acrylonitrile Butadiene Rubber Based on Dynamic Dielsâ€Alder â€œClick Chemistryâ€ and Disulfide Metathesis Reaction. Macromolecular Materials and Engineering, 2021, 306, 2000626.	1.7	31
11	Self-healing elastomers based on conjugated diolefins: a review. Polymer Chemistry, 2021, 12, 1598-1621.	1.9	31
12	A novel ionomeric polyurethane elastomer based on ionic liquid as crosslinker. RSC Advances, 2016, 6, 99404-99413.	1.7	30
13	Tailor-made thermoreversible functional polymer via RAFT polymerization in an ionic liquid: a remarkably fast polymerization process. Green Chemistry, 2016, 18, 6115-6122.	4.6	30
14	Synthesis of a self-healable and pH responsive hydrogel based on an ionic polymer/clay nanocomposite. RSC Advances, 2016, 6, 81654-81665.	1.7	30
15	A new class of dual responsive self-healable hydrogels based on a core crosslinked ionic block copolymer micelle prepared via RAFT polymerization and Dielsâ€Alder â€œclickâ€ chemistry. Soft Matter, 2017, 13, 9024-9035.	1.2	28
16	A self-healable and antifouling hydrogel based on PDMS centered ABA tri-block copolymer polymersomes: a potential material for therapeutic contact lenses. Journal of Materials Chemistry B, 2020, 8, 226-243.	2.9	28
17	Thermally amendable tailor-made functional polymer by RAFT polymerization and â€œclick reactionâ€ Journal of Polymer Science Part A, 2013, 51, 3365-3374.	2.5	24
18	A muscle mimetic polyelectrolyteâ€nanoclay organicâ€inorganic hybrid hydrogel: its self-healing, shape-memory and actuation properties. Journal of Materials Chemistry B, 2019, 7, 1475-1493.	2.9	24

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19	REDOX Responsive Fluorescence Active Glycopolymer Based Nanogel: A Potential Material for Targeted Anticancer Drug Delivery. ACS Applied Bio Materials, 2019, 2, 2587-2599.	2.3	24
20	A healable thermo-reversible functional polymer prepared via RAFT polymerization and ultrafast "click" chemistry using a triazolinedione derivative. Chemical Communications, 2017, 53, 8715-8718.	2.2	23
21	Smart Polyacrylate Emulsion Based on a New ABC-Type Triblock Copolymer via RAFT-Mediated Surfactant-Free Miniemulsion Polymerization: Its Multifunctional Properties. ACS Applied Materials & Interfaces, 2019, 11, 44722-44734.	4.0	23
22	Ag NPs incorporated self-healable thermoresponsive hydrogel using precise structural "interlocking" complex of polyelectrolyte BCPs: A potential new wound healing material. Chemical Engineering Journal, 2021, 405, 126436.	6.6	23
23	A new healable polymer material based on ultrafast Diels-Alder "click" chemistry using triazolinedione and fluorescent anthracyl derivatives: a mechanistic approach. Polymer Chemistry, 2019, 10, 5070-5079.	1.9	21
24	Macromolecular engineering in functional polymers via "click chemistry" using triazolinedione derivatives. Progress in Polymer Science, 2021, 113, 101343.	11.8	21
25	Self-healing hydrophobic POSS-functionalized fluorinated copolymers via RAFT polymerization and dynamic Diels-Alder reaction. Polymer Chemistry, 2021, 12, 876-884.	1.9	21
26	A self-healable fluorescence active hydrogel based on ionic block copolymers prepared via ring opening polymerization and xanthate mediated RAFT polymerization. Polymer Chemistry, 2018, 9, 1190-1205.	1.9	19
27	Amphiphilic functional block copolymers bearing a reactive furfuryl group via RAFT polymerization; reversible core cross-linked micelles via a Diels-Alder "click reaction". RSC Advances, 2016, 6, 2455-2463.	1.7	18
28	Effect of ionic liquids on the RAFT polymerization of butyl methacrylate. European Polymer Journal, 2018, 107, 294-302.	2.6	17
29	Tailor-Made Functional Polymethacrylates with Dual Characteristics of Self-Healing and Shape-Memory Based on Dynamic Covalent Chemistry. Macromolecular Materials and Engineering, 2020, 305, 2000142.	1.7	17
30	Self-healable hydrophobic polymer material having urethane linkages via a non-isocyanate route and dynamic Diels-Alder "click" reaction. Chemical Communications, 2021, 57, 1149-1152.	2.2	17
31	A dual thermoresponsive and antifouling zwitterionic microgel with pH triggered fluorescent "on-off" core. Journal of Colloid and Interface Science, 2021, 589, 110-126.	5.0	16
32	POSS and fluorine containing nanostructured block copolymer; Synthesis via RAFT polymerization and its application as hydrophobic coating material. European Polymer Journal, 2020, 131, 109679.	2.6	12
33	Tunable Morphology and Hydrophobicity of Polyfluoroacrylate/Clay Nanocomposite Prepared by In Situ RAFT Polymerization in Miniemulsion. Macromolecular Chemistry and Physics, 2015, 216, 650-661.	1.1	11
34	Fast "ES-Click" Reaction Involving Furfuryl and Triazolinedione Functionalities toward Designing a Healable Polymethacrylate. Macromolecules, 2020, 53, 8313-8323.	2.2	11
35	INSIGHTS INTO THE PREPARATION OF VINYL POLYBUTADIENE VIA COBALT-BASED CATALYST: TUNING ITS PROPERTIES BY THIOL-ENE MODIFICATION OF VINYL GROUP. Rubber Chemistry and Technology, 2016, 89, 335-348.	0.6	10
36	Thermally amendable tailor-made acrylate copolymers via RAFT polymerization and ultrafast alder "ene click" chemistry. Journal of Polymer Science Part A, 2018, 56, 2310-2318.	2.5	10

#	ARTICLE	IF	CITATIONS
37	Precise synthesis of thermoreversible block copolymers containing reactive furfuryl groups via living anionic polymerization: the counteraction effect on block copolymerization behavior. <i>Polymer Chemistry</i> , 2015, 6, 6732-6738.	1.9	9
38	Polyurethane-POSS hybrid materials: by solution blending and in-situ polymerization processes. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	5
39	A Thermoplastic Polyurethane /Nanosilica Composite via Melt Mixing Process and its Properties. <i>Silicon</i> , 2021, 13, 1041-1049.	1.8	4
40	Self-healable functional polymers based on Diels-Alder click chemistry™ involving substituted furan and triazolinedione derivatives: a simple and very fast approach. <i>Polymer Chemistry</i> , 2021, 12, 6283-6290.	1.9	4
41	Glycopolymer ornamented octa-arm POSS based organic-inorganic hybrid star block copolymer as a lectin binding ligand. <i>Materials Science and Engineering C</i> , 2020, 116, 111210.	3.8	3
42	Self-Healable Hydrophobic Material Based on Anthracenyl Functionalized Fluorous Block Copolymers via Reversible Addition-Fragmentation Chain Transfer Polymerization and Rapid Diels-Alder Reaction. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100307.	1.7	1
43	Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization in Ionic Liquids: A Sustainable Process. <i>Materials Horizons</i> , 2020, , 183-193.	0.3	0