List of Publications of Dr. Prabhat K. Singh

Total citations: 3160
H-Index: 36
Source: www.scholar.google.co.in on 22.03.2024
Webpage: https://scholar.google.co.in/citations?user=tLZ6QKgAAAAJ&hl=en

Note: Asterik (*) indicates that P. K. Singh is the corresponding author in these publications

129. Expanding the Scope of Self-Assembled Supramolecular Biosensors: A Highly Selective and Sensitive Enzyme-Responsive AIE-Based Fluorescent Biosensor for Trypsin Detection and Inhibitor Screening

128. Thioflavin-T Enhanced Fluorescence in Cerium-ATP Coordination Polymer Nanoparticles for Selective and Sensitive Cu(II) Detection in E-Waste and Biological Samples
ACS Appl. Nano Mater., 7 (2024) 1425-1436 [IF: 5.9]

127. Prospects of charged cyclodextrins in biomedical applications
V. Sehgal, S. P. Pandey, P. K. Singh*
Carbohydrate Polymers, 323 (2024), 121348 [IF: 11.2]

126. A novel approach to supramolecular Aggregation-Induced emission using tetracationic tetraphenylethylene and sulfated β-Cyclodextrin
T. P. Shaima, H. A. Mirgane, A. H. Upadhaya, S. V. Bhosale, P. K. Singh*

125. Targeting Amyloids with coated Nanoparticles: A review on lucrative combinations of Nanoparticles and its Bio-compatible coating"*O. D.Warerkar, N. H. Mudliar, M. Momin, P. K. Singh*
Critical Reviews in Therapeutic Drug Carrier Systems 41 (2024) 85 [IF: 4.889]

124. Synthesis of octa-benzothiazole functionalized tetraphenylethylene and their explosive sensing properties

123. Synthesis, Photophysical Properties and Self-Assembly of a Tetraphenylethylene-Naphthalene Diimide Donor-Acceptor Molecule
Chemistry- An Asian Journal,19 (2024) e202301046 [IF: 4.1]
122. Al$^{3+}$-Responsive Ratiometric Fluorescent Sensor for Creatinine Detection: Thioflavin-T and Sulfated-β-Cyclodextrin Synergy
S. Bais, P. K. Singh*

121. A turn-on fluorescence sensor for detection of heparinase with heparin templated aggregation of tetracationic porphyrin derivative
S. P. Pandey, P. K. Singh, P. Jha, R. Jobby
Int. J. Biol. Macromol 249(2023) 125934 [IF: 8.02]

120. Mitochondria Directing Fluorogenic Probe: An Efficient Amyloid Marker for Imaging Lipid Metabolite Induced Protein Aggregation in Live Cells and C. elegans
Analytical Chemistry, 95(2023) 6341-6350 [IF: 8.01]

119. A Highly Sensitive Hemicyanine-Based Near-Infrared Fluorescence Sensor for Detecting Toxic Amyloid Aggregates in Human Serum
O. D.Warerkar, N. H. Mudliar, T. Ahuja, S. D. Shahane, P. K. Singh*
Int. J. Biol. Macromol 247(2023) 125621 [IF: 8.02]

118. Thioflavin-T-Incorporated Cerium-ATP Coordination Polymer Nanoparticles: A Promising System for Detection of Uranyl Ion (UO$_2^{2+}$) in Aqueous Medium
M. Ghosh, K. K. Swain, P. K. Singh*

117. 2D-IR Spectroscopy of Nitrosyl Stretch of Sodium Nitroprusside Reveals the Elusive Two Anomalous Regions in the DMSO–Water Mixture

116. An ultrasensitive and selective method for visual detection of Heparin in 100% human plasma
S.P. Pandey, P. Jha, P. K. Singh*
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114. AIE-Active ‘Turn-On’ Sensors for Highly Selective Detection of Bovine Serum Albumin
V. K. Gawade, R. W. Jadhav, P. K. Singh, S. V. Bhosale
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113. Novel merocyanine-derived receptor: synthesis, crystal structure and picric acid recognition, spectroscopic and theoretical study
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111. Sensitive Turn-off Detection of Nitroaromatics Using Fluorescent Tetraphenylethylene Phosphonate Derivative
J.N. Malegaonkar, M Al Kobaisi, P. K. Singh, S. V. Bhosale, S. V. Bhosale

110. Aminobenzothiazole fused tetraphenylethene AIEgen: Ag+, Hg2+ and Fe3+ Sensing Applications in Aqueous Medium
D. I. Bhusanur, P. K. Singh, S. V. Bhosale, S. V. Bhosale,
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D. I. Bhusanur, P. K. Singh, S. V. Bhosale, S. V. Bhosale,
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108. An aggregation induced emission based simple and sensitive fluorescence ‘Turn-On’ method for monitoring sodium hexa-meta-phosphate, a food preservative
J. Kaur, P. K. Singh*
Microchemical Journal, 183 (2022) 108091 [IF: 5.30]

107. Guest Binding with Sulfated Cyclodextrins: Does the Size of Cavity Matter?"
G. Singh, S.P. Pandey, P. K. Singh*

106. Nanomaterial based advancement in the inorganic pyrophosphate detection methods in the last decade: A review
J. Kaur, P.K. Singh*
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105. A Highly Efficient and Selective Optical Detection Method for Heparin that works in 100 % Human Serum
S.P. Pandey, P. Jha, P. K. Singh*

104. A tetracationic aggregation induced emission-based probe for efficient and improved detection of Heparin
S. P. Pandey, P Jha, D. N. Nadimelta, S. V. Bhosale, P. K. Singh*

103. A simple and convenient choline oxidase inhibition based colorimetric biosensor for detection of organophosphorus class of pesticides
J. Kaur, D. Bandopadhyay, P. K. Singh*
102. Dynamics in tris (pentafluoroethyl) trifluorophosphate (FAP) anion based ionic liquids: A 2D-IR study with tungsten hexacarbonyl
A. K. Mora, P. K. Singh*, S Nath

101. A molecular rotor based ratiometric detection scheme for aluminium ions in water
S. P. Pandey, A. M. Desai, P. K. Singh*

100. A Unique Supramolecular Assembly between Sulfated Cyclodextrin, Silver and Melamine: Towards a Fluorescence based Dual Wavelength Detection Approach for Melamine
V. R. Singh, S. P. Pandey, P. K. Singh*

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J. Kaur, D. N. Nadimelta, S. V. Bhosale, P. K. Singh*

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J. Kaur, P. K. Singh*
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97. A cationic AIEgen and hexametaphosphate based simple and convenient fluorometric assay for alkaline phosphatase and its inhibitor
J. Kaur, H. A. Mirgane, S. V. Bhosale, P. K. Singh*

96. Imprinted Polymer Functionalized Concatenated Optical Microfiber: Hypersensitive and Selective
P. Gorai, S. Kumar, C. Marques, P. K. Singh, R. Jha

95. Sulfated-β-cyclodextrin templated aggregation of a metachromatic dye, Basic Orange 21: A photophysical investigation,
G. Singh, V. R. Singh, S. P. Pandey, P. K. Singh*
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J. Kaur, P. K. Singh*

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92. Poly (styrene-sulfonate) hosted Thioflavin-T aggregates: A turn-on and ratiometric sensing platform for ATP recognition
V. R. Singh, S. P. Pandey, P. K. Singh*
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G. Singh, S. P. Pandey, P. K. Singh*

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S. P. Pandey, A. A. Awasthi, P. K. Singh*
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89. An anionic tetraphenyl ethylene based simple and rapid fluorescent probe for detection of trypsin and paraoxon methyl
J. Kaur, J. N. Malegaonkar, S. V. Bhosale, P. K. Singh*

88. Effect of Counter-anion on the Aggregation of Thioflavin-T
A. M. Desai, S. P. Pandey, P. K. Singh*
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87. Supramolecular control on the optical properties of a dye-polyelectrolyte assembly
A. A. Awashthi, S. P. Pandey, P. K. Singh*
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86. A colorimetric and fluorometric based dual readout approach for effective Heparin sensing
S. P. Pandey, P. Jha, P. K. Singh*

85. A Cyanine based Dicationic Molecular Rotor Probe for Dual Sensing of Heparin
S. P. Pandey, P. Jha, P. K. Singh*

84. A hemicyanine based fluorescence turn-on sensor for amyloid fibril detection in the far-red region
O. D. Warerkar, N. H. Mudliar, P. K. Singh*

83. A Polyelectrolyte based supramolecular assembly for ratiometric sensing of ATP with very high discrimination from Pyrophosphate
V. R. Singh, S. P. Pandey, P. K. Singh*
82. A Dual Intensity and Lifetime based Fluorescence Sensor for Perrhenate Anion
G. Singh, S. P. Pandey, P. K. Singh*

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N. H. Mudliar, P. K. Singh*
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80. A cationic cyclodextrin assisted aggregation of an anionic pyrene derivative and its stimuli responsive behavior
G. Chakraborty, P. K. Singh*, H. Pal

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N. H. Mudliar, P. M. Dongre, P. K. Singh*
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78. How mobile is the water in the reverse micelles? A 2DIR study with an ultrasmall IR probe
A. K. Mora, P. K. Singh*, S. A. Nadkarni, S Nath

77. A novel supramolecule-based fluorescence turn-on and ratiometric sensor for highly selective detection of glutathione over cystein and homocystein
V. R. Singh, P. K. Singh*

76. An ATP responsive fluorescent supramolecular assembly based on polyelectrolyte and AIE active tetraphenylethylene derivative
V. R. Singh, J. N. Malegaonkar, S. V. Bhosale, P. K. Singh*

75. A highly sensitive fluorescence “turn on” detection of perrhenate Anion, a non-radioactive surrogate of hazardous pertechnetate anion
S. P. Pandey, A. M. Desai, P. K. Singh*

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G Chakraborty, AK Ray, PK Singh*, H Pal

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N. H. Mudliar, A. M. Pettiwala, P. M. Dongre, P. K. Singh*

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S. P. Pandey, P. Jha, P. K. Singh*

71. Enzyme based optical biosensors for organophosphate class of pesticide detection
J. Kaur, P. K. Singh*
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M. Sayed, J. Balayan, P. K. Singh, H. Pal

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G. Singh, P. K. Singh*

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65. Basic Orange 21: A molecular rotor probe for fluorescence turn-on sensing of amyloid fibrils
S. P. Pandey, P. K. Singh*

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S. P. Pandey, P. K. Singh*

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61. Stimulus-responsive Supramolecular Host-guest Assembly of a Cationic Pyrene Derivative with Sulfated -cyclodextrin
G. Singh, P. K. Singh*

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N. H. Mudliar, P. M. Dongre, P. K. Singh*

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N. H. Mudliar, P. K. Singh*

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A. M. Desai and P. K. Singh*

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A. M. Pettiwala, N. H. Mudliar, P. K. Singh*

53. Ratiometric fluorescence turn-on sensing of perrhenate anion, a nonradioactive surrogate of hazardous pertechnetate, in aqueous solution
A. M. Desai, P. K. Singh*

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serum matrix

51. A supramolecular assembly enables discrimination between metalloproteins and non metalloproteins
A. M. Pettiwala, P. K. Singh*

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A. A. Awasthi, P. K. Singh*

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A. M. Pettiwala, P. K. Singh*

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A. M. Pettiwala, P. K. Singh*

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45. Excited-State Proton Transfer on the Surface of a Therapeutic Protein, Protamine
A. A. Awasthi, P. K. Singh*

44. Stimulus-Responsive Supramolecular Aggregate Assembly of Auramine O Templated by Sulfated Cyclodextrin
A. A. Awasthi, P. K. Singh*

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N. H. Mudliar, B. Sadhu, A. Pettiwala, P. K. Singh*

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N. H. Mudliar and P. K. Singh*
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A. K. Mora, S. Murudkar, A. Alamelu, P. K. Singh, S. Chattopadhyay, S. Nath
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35. Free volume dependence of an ionic molecular rotor in Fluoroalkylphosphate (FAP) based ionic liquids
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34. Ultrafast Torsional Relaxation of Thioflavin-T in Tris(pentafluoroethyl)trifluorophosphate (FAP) Anion Based Ionic Liquids
P. K. Singh, A. K. Mora, S. Nath

33. Ultrafast fluorescence spectroscopy reveals a dominant weakly-emissive population of fibril bound Thioflavin-T
P. K. Singh, A. K. Mora, S. Nath

32. An Ultrafast molecular rotor based ternary complex in a nanocavity: A potential “turn on” fluorescence sensor for hydrocarbon chain
S. Murudkar, A. K. Mora, P. K. Singh, T. Bandyopadhyay, S. Nath

31. Ultrafast Torsional Dynamics of Thioflavin-T in an Anionic Cyclodextrin Cavity
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A. K. Mora, S. Murudkar, P. K. Singh, S. Nath

29. Dynamics Under Confinement: Torsional Dynamics of Auramine O in a Nanocavity
P. K. Singh,* A. K. Mora, S. Murudkar, S. Nath

28. Ultrafast molecular rotor based DNA sensor: An insight into the mode of interaction

27. Molecular Recognition Controlled Delivery of a Small Molecule from a Nanocarrier to Natural DNA
P. K. Singh,* S. Nath

26. Ultrafast Excited State Dynamics of an Environmental Pollutant, 1-Nitropyrene: Effect of H-bonding
A. K. Mora, S. Murudkar, P. K. Singh, N. S. K. Gowthaman, T. Mukherjee, S. Nath,

25. An Ion’s Perspective on the Molecular Motions of Nanoconfined Water: A Two Dimensional Infrared Spectroscopy Study
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24. Differential Hydration of Tricyanomethanide observed by Time resolved Vibrational Spectroscopy
D. G. Kuroda, P. K. Singh, R. M. Hochstrasser

23. Ultrafast Torsional Dynamics in Nano-confined Water pool: Comparison between Neutral and Charged Reverse Micelles
P. K. Singh,* S. Nath

22. Probing the DNA-Ionic Liquid Interaction using an Ultrafast Molecular Rotor
P. K. Singh,* S. Jakka, A. K. Mora, S. Nath

21. Ultrafast Molecular Rotor: An Efficient Sensor for Premelting of Natural DNA

20. A Nanoconfined Charged Layer Defy the Rule of Electrostatic Interaction
P. K. Singh, M. Kumbhakar, H. Pal, S. Nath
19. Origin of Ultrafast Excited State Dynamics of 1-Nitropyrene

18. Confined ultrafast torsional dynamics of Thioflavin- T in a nanocavity
P. K. Singh, M. Kumbhakar, H. Pal, S. Nath

17. Tuning of Intermolecular Electron Transfer Reaction by Modulating the Microenvironment inside Copolymer-surfactant Supramolecular Assemblies

16. Ultrafast Electron Transfer Dynamics in Micellar Media using Surfactant as the Intrinsic Electron Acceptor

15. Viscosity Effect on the Ultrafast Bond Twisting Dynamics in an Amyloid Fibril Sensor Thioflavin- T
P. K. Singh, M. Kumbhakar, H. Pal, S. Nath

14. Identifying the Bond responsible for the Fluorescence Modulation in Amyloid Fibril Sensor
A. Srivastava, P. K. Singh, M. Kumbhakar, T. Mukherjee, S. Chattopadhyay, H. Pal, S. Nath
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13. Contrasting Solvent Polarity Effect on the Photophysical Properties of Two Newly Synthesized Aminostyryl Dyes in the Lower and in the Higher Solvent Polarity Regions

12. Time-resolved Fluorescence and Small Angle Neutron Scattering Study in Pluronics surfactant Supramolecular Assemblies

11. Ultrafast Bond Twisting Dynamics in Amyloid Fibril Sensor
P. K. Singh, M. Kumbhakar, H. Pal, S. Nath

10. Ultrafast Torsional Dynamics of Protein Binding dye, Thioflavin-T, in Nanoconfined Water Pool
P. K. Singh, M. Kumbhakar, H. Pal, S. Nath

9. Fluorescence Spectroscopic Investigation to Identify Micelle to Gel Transition of Aqueous Tri-block Copolymer solutions
S. George, M. Kumbhakar, P. K. Singh, R. Ganguly, S. Nath, H. Pal

8. Modulation in the Solute Location in Block Copolymer-surfactant Supramolecular Assembly: A Time-Resolved Fluorescence study
P. K. Singh, M. Kumbhakar, H. Pal, S. Nath

7. Effect of Donor Orientation on Ultrafast Intermolecular Electron Transfer in Coumarin amine Systems

6. A Nanoreactor for Tuning the Chemical Reactivity of a Solute

5. Effects of Block size of Pluronic Polymers on the Water Structure in the Corona Region and its Effect on the Electron transfer reactions
P. Verma, S. Nath, P. K. Singh, M. Kumbhakar, H. Pal

4. Effect of Electrostatic Interaction on the Location of Molecular Probe in Polymer-surfactant Supramolecular assembly: A Solvent Relaxation Study
P. K. Singh, M. Kumbhakar, H. Pal, S. Nath

3. Ultrafast Bimolecular Electron Transfer Dynamics in Micellar Media
M. Kumbhakar, P. K. Singh, S. Nath, A. C. Bhasikuttan, H. Pal

2. Quantitative Distinction between Competing Intramolecular Bond-twisting and Solvent Relaxation Dynamics: An Ultrafast Study.
P. K. Singh, S. Nath, M. Kumbhakar, A. C. Bhasikuttan, H. Pal

Book Chapters

1. Aptamer based approaches for sensing harmful synthetic and natural toxins
   J. Kaur, P. K. Singh*
   Book Chapter (Elsevier), in "Sensing of Deadly Toxic Chemical Warfare Agents, Nerve Agent Simulants and their Toxicological Aspects" 247-268, [2023]"

2. Polysaccharides for Biosensing
   S.P. Pandey, P. K. Singh*
   Book Chapter (Elsevier) in "Handbook of Natural Polymers, Volume 3". (Accepted), [2023]

Invited Talks

13. Fluorescence based sensors for clinically relevant bio-analytes
   P K. Singh
   Innovative Inclinations and Sustainable Technologies in Chemical Sciences (IISTCS), Deogiri College, Aurangabad, India
   February 2023

12. Fluorescence based sensors for various clinically relevant bio-analytes
   P K. Singh
   Recent Trends in Multidisciplinary research involving Chemistry-Biology Interface, Mithibai College, Mumbai
   February 2023

11. Fluorescence based sensors for various clinically relevant bio-analytes
   P K. Singh
   National Workshop on Modern Tools and Techniques in Chemical and Biological Sciences, CEBS Raipur
   February 2023

10. Fluorescence based sensors for various clinically relevant bio-analytes
   P K. Singh
   International Conference on Recent Advances in Chemistry and Their Applications in Emerging Areas (ICRAC-2023), Swami Ramanand Teerth Marathwada University, Nanded, January, 2023

9. Aggregation induced emission based sensors for Heparin: A widely used blood anticoagulant
   P K. Singh
   “International Conference on Aggregation-induced Emission from Fundamental to Applications” (IC-AIE-FA 2022), BITS Pilani, Goa Campus
   December, 2022
8. Sensing using Absorption and Fluorescence Spectroscopy  
**P K. Singh**  
Online Faculty Development Programme (FDP) On Molecular Characterization Techniques, SRM University, India  
February 2022

7. Molecular rotor based fluorescence sensors for Heparin  
**P K. Singh**  
58th Annual Convention of Chemists and International Conference on Recent Trends in Chemical Sciences, Indian Chemical Society  
December 2021

6. Fluorescent sensors for Heparin: A widely used blood anti-coagulant  
**P K. Singh**  
Online Faculty Development Programme (FDP) On Development and applications of Sensors in Modern life, NIT Arunachal Pradesh  
October 2021

5. A Molecular rotor based sensor for Heparin  
**P K. Singh**  
3rd Asian Conference on Chemosensors and Imaging Probes-2019, Amritsar, India.  
November 2019

4. Protein Aggregates: Biophysical Characterization and Detection  
**P K. Singh**  
Invited guest lecture series, Department of Lifesciences, University of Mumbai, November 2018

3. Biophysics and Protein Diseases  
**P K. Singh**  
Mini Symposium-Workshop on Biophysics, Department of Biophysics, University of Mumbai, September 2018

2. Exploring Nano-confined water using a symmetric ion : A 2D IR Investigation  
**P K. Singh**  
Trombay Symposium on Radiation and Photochemistry (TSRP-2014), Mumbai, 2014

1. 2D IR Investigation of Nano-confined Water using an Infrared Reporter Probe  
**P K. Singh**  
2nd DAE-BRNS Theme meeting on Ultrafast Science (UFS-2014), Manipal University, Manipal, November-2014