

# Ravindra K Pandey

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

6,485  
citations

94433

37  
h-index

62596

80  
g-index

90  
all docs

90  
docs citations

90  
times ranked

7326  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Charged groups on pyropheophorbide-based photosensitizers dictate uptake by tumor cells and photodynamic therapy efficacy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 227, 112375.   | 3.8  | 5         |
| 2  | Photodynamic Therapy in Combination with Doxorubicin Is Superior to Monotherapy for the Treatment of Lung Cancer. <i>Biomedicines</i> , 2022, 10, 857.   | 3.2  | 9         |
| 3  | Impact of Mono- and Di- $\beta$ -Galactose Moieties in in vitro / in vivo Anticancer Efficacy of Pyropheophorbide-Carbohydrate Conjugates by Photodynamic Therapy. <i>European Journal of Medicinal Chemistry Reports</i> , 2022, , 100047.                      | 1.4  | 0         |
| 4  | Tumor-Avid 3-(1 $\beta$ -Hexyloxy)ethyl-3-devinylpyropheophorbide-a (HPPH)-3Gd(III)tetraxetan (DOTA) Conjugate Defines Primary Tumors and Metastases. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 9267-9280.   | 6.4  | 3         |
| 5  | Tumor cell-specific retention of photosensitizers determines the outcome of photodynamic therapy for head and neck cancer. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 234, 112513.   | 3.8  | 5         |
| 6  | Synthesis, Tumor Specificity, and Photosensitizing Efficacy of Erlotinib-Conjugated Chlorins and Bacteriochlorins: Identification of a Highly Effective Candidate for Photodynamic Therapy of Cancer. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 741-767. | 6.4  | 20        |
| 7  | Meso $\beta$ -biphenyl-linked, Near- and Far-Infrared Emitting, Chlorin and Bacteriochlorin Dimers: Synthesis, Excitation Transfer, and Singlet Oxygen Production. <i>ChemPlusChem</i> , 2021, 86, 674-680.  | 2.8  | 3         |
| 8  | Chiral Alkyl Groups at Position 3(1 $\beta$ ) of Pyropheophorbide-a Specify Uptake and Retention by Tumor Cells and Are Essential for Effective Photodynamic Therapy. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 4787-4809.                               | 6.4  | 11        |
| 9  | The unique features and promises of phthalocyanines as advanced photosensitizers for photodynamic therapy of cancer. <i>Chemical Society Reviews</i> , 2020, 49, 1041-1056.  | 38.1 | 486       |
| 10 | Pluronic F127: An Efficient Delivery Vehicle for 3-(1 $\beta$ -hexyloxy)ethyl-3-devinylpyropheophorbide-a (HPPH) or Tj ETQgO O O rgB   | 2.5  | 12        |
| 11 | meso $\beta$ - and $\beta$ -pyrrole-linked Chlorin-Bacteriochlorin Dyads for Promoting Far-Red FRET and Singlet Oxygen Production. <i>Chemistry - A European Journal</i> , 2020, 26, 14996-15006.  | 3.3  | 8         |
| 12 | Highlights on the imaging (nuclear/fluorescence) and phototherapeutic potential of a tri-functional chlorophyll-a analog with no significant toxicity in mice and rats. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 211, 111998.        | 3.8  | 5         |
| 13 | The Structures of Gd(III) Chelates Conjugated at the Periphery of 3-(1 $\beta$ -Hexyloxy)ethyl-3-devinylpyropheophorbide-a (HPPH) Have a Significant Impact on the Imaging and Therapy of Cancer. <i>ChemMedChem</i> , 2020, 15, 2058-2070.                      |      | 11        |
| 14 | Sonodynamic therapy in combination with photodynamic therapy shows enhanced long-term cure of brain tumor. <i>Scientific Reports</i> , 2020, 10, 21791.  | 3.3  | 32        |
| 15 | Targeted Nanoparticles for Fluorescence Imaging of Folate Receptor Positive Tumors. <i>Biomolecules</i> , 2020, 10, 1651.  | 4.0  | 13        |
| 16 | Role of tumor microenvironment in the efficacy of BCG therapy. <i>Trends in Research</i> , 2020, 3, .  | 0.2  | 8         |
| 17 | A Pyropheophorbide Analogue Containing a Fused Methoxy Cyclohexenone Ring System Shows Promising Cancer-Imaging Ability. <i>ChemMedChem</i> , 2019, 14, 1503-1513.   | 3.2  | 6         |
| 18 | Epidermal Growth Factor Receptor-Targeted Multifunctional Photosensitizers for Bladder Cancer Imaging and Photodynamic Therapy. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2598-2617.   | 6.4  | 29        |

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|----|---|------|-----------|
| 19 | Phototriggered Release of Tumor-Imaging and Therapy Agents from Lyophilized Multifunctional Polyacrylamide Nanoparticles. <i>ACS Applied Bio Materials</i> , 2019, 2, 5663-5675.  | 4.6  | 3         |
| 20 | Whole body and local hyperthermia enhances the photosensitizing efficacy of 3-((1-hexyloxy)ethyl)-3'-devinylpyropheophorbide-a (HPPH). <i>Lasers in Surgery and Medicine</i> , 2018, 50, 506-512.   | 2.1  | 3         |
| 21 | Design and biological activity of novel stealth polymeric lipid nanoparticles for enhanced delivery of hydrophobic photodynamic therapy drugs. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2295-2305.                  | 3.3  | 15        |
| 22 | Measurement of Cyanine Dye Photobleaching in Photosensitizer Cyanine Dye Conjugates Could Help in Optimizing Light Dosimetry for Improved Photodynamic Therapy of Cancer. <i>Molecules</i> , 2018, 23, 1842.                                      | 3.8  | 46        |
| 23 | Structural and Epimeric Isomers of HPPH [3-Devinyl 3-[1-(1-hexyloxy) ethyl]pyropheophorbide-a]: Effects on Uptake and Photodynamic Therapy of Cancer. <i>ACS Chemical Biology</i> , 2017, 12, 933-946.  | 3.4  | 20        |
| 24 | Photosensitizer (PS)-cyanine dye (CD) conjugates: Impact of the linkers joining the PS and CD moieties and their orientation in tumor-uptake and photodynamic therapy (PDT). <i>European Journal of Medicinal Chemistry</i> , 2016, 122, 770-785. | 5.5  | 22        |
| 25 | Multifunctional Agents for Cancer-Imaging and Photodynamic Therapy: Impact of Polyacrylamide-Based Nanoplatforms. , 2016, , 3-43.   |      | 1         |
| 26 | Highly Effective Dual-Function Near-Infrared (NIR) Photosensitizer for Fluorescence Imaging and Photodynamic Therapy (PDT) of Cancer. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9774-9787.  | 6.4  | 77        |
| 27 | Effect of Metalation on Porphyrin-Based Bifunctional Agents in Tumor Imaging and Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2016, 27, 667-680.   | 3.6  | 32        |
| 28 | Handbook of Photodynamic Therapy. , 2016, , .   |      | 22        |
| 29 | Impact of Substituents in Tumor Uptake and Fluorescence Imaging Ability of Near-Infrared Cyanine-Like Dyes. <i>Photochemistry and Photobiology</i> , 2015, 91, 1219-1230.   | 2.5  | 9         |
| 30 | Porphyrin-based photosensitizers and the corresponding multifunctional nanoplatforms for cancer-imaging and phototherapy. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 109-134.   | 0.8  | 63        |
| 31 | Effect of chirality on cellular uptake, imaging and photodynamic therapy of photosensitizers derived from chlorophyll-a. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3603-3617.   | 3.0  | 23        |
| 32 | Gold Nanocage-Photosensitizer Conjugates for Dual-Modal Image-Guided Enhanced Photodynamic Therapy. <i>Theranostics</i> , 2014, 4, 163-174.   | 10.0 | 113       |
| 33 | Polyacrylamide-Based Biocompatible Nanoplatform Enhances the Tumor Uptake, PET/fluorescence Imaging and Anticancer Activity of a Chlorophyll Analog. <i>Theranostics</i> , 2014, 4, 614-628.  | 10.0 | 32        |
| 34 | Targeting the C-terminal focal adhesion kinase scaffold in pancreatic cancer. <i>Cancer Letters</i> , 2014, 353, 281-289.   | 7.2  | 15        |
| 35 | Design, synthesis, and biological evaluation of novel FAK scaffold inhibitors targeting the FAK-VEGFR3 protein-protein interaction. <i>European Journal of Medicinal Chemistry</i> , 2014, 80, 154-166.   | 5.5  | 26        |
| 36 | Porphyrin-phospholipid liposomes permeabilized by near-infrared light. <i>Nature Communications</i> , 2014, 5, 3546.  | 12.8 | 282       |

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|----|--|------|-----------|
| 37 | Regioselective Synthesis and Photophysical and Electrochemical Studies of 20â€Substituted Cyanine Dyeâ€Purpurinimide Conjugates: Incorporation of Ni<sup>II</sup> into the Conjugate Enhances its Tumorâ€Uptake and Fluorescenceâ€Imaging Ability. <i>Chemistry - A European Journal</i> , 2013, 19, 6670-6684.          | 3.3  | 16        |
| 38 | Comparative Tumor Imaging and PDT Efficacy of HPPH Conjugated in the Mono- and Di-Forms to Various Polymethine Cyanine Dyes: Part - 2. <i>Theranostics</i> , 2013, 3, 703-718.   | 10.0 | 38        |
| 39 | AN IODINE LABELED PORPHYRIN AS A NEW RADIATION SENSITIZER IN HUMAN BLADDER CANCER CELLS IN VITRO AND IN VIVO, COMBINING PHOTODYNAMIC THERAPY (PDT) WITH PHOTON ACTIVATION THERAPY (PAT). <i>Journal of the Nihon University Medical Association</i> , 2013, 72, 212-219.   | 0.0  | 1         |
| 40 | Multifunctional Biodegradable Polyacrylamide Nanocarriers for Cancer Theranosticsâ€A â€See and Treatâ€Strategy. <i>ACS Nano</i> , 2012, 6, 6843-6851.   | 14.6 | 109       |
| 41 | Multifunctional nanoplatfoms for fluorescence imaging and photodynamic therapy developed by post-loading photosensitizer and fluorophore to polyacrylamide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 941-950.   | 3.3  | 57        |
| 42 | Remarkable Regioselective Position-10 Bromination of Bacteriopyropheophorbide- <i>a</i> and Ring-B Reduced Pyropheophorbide- <i>a</i> . <i>Organic Letters</i> , 2011, 13, 1956-1959.  | 4.6  | 24        |
| 43 | TSPO 18 kDa (PBR) Targeted Photosensitizers for Cancer Imaging (PET) and PDT. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 136-141.   | 2.8  | 34        |
| 44 | In Vitro Cellular Uptake and Dimerization of Signal Transducer and Activator of Transcription-3 (STAT3) Identify the Photosensitizing and Imaging-Potential of Isomeric Photosensitizers Derived from Chlorophyll- <i>a</i> and Bacteriochlorophyll- <i>a</i> . <i>Journal of Medicinal Chemistry</i> , 2011, 54, 6859-6873. | 6.4  | 28        |
| 45 | The role of porphyrin chemistry in tumor imaging and photodynamic therapy. <i>Chemical Society Reviews</i> , 2011, 40, 340-362.  | 38.1 | 1,707     |
| 46 | Cellâ€type Selective Phototoxicity Achieved with Chlorophyllâ€a Derived Photosensitizers in a Coâ€culture System of Primary Human Tumor and Normal Lung Cells. <i>Photochemistry and Photobiology</i> , 2011, 87, 1405-1418.  | 2.5  | 28        |
| 47 | Conjugation of cRGD Peptide to Chlorophyll <i>a</i> Based Photosensitizer (HPPH) Alters Its Pharmacokinetics with Enhanced Tumor-Imaging and Photosensitizing (PDT) Efficacy. <i>Molecular Pharmaceutics</i> , 2011, 8, 1186-1197.   | 4.6  | 69        |
| 48 | Novel methods to incorporate photosensitizers into nanocarriers for cancer treatment by photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 686-695.   | 2.1  | 49        |
| 49 | Substrate Affinity of Photosensitizers Derived from Chlorophyll-a: The ABCG2 Transporter Affects the Phototoxic Response of Side Population Stem Cell-like Cancer Cells to Photodynamic Therapy. <i>Molecular Pharmaceutics</i> , 2010, 7, 1789-1804.  | 4.6  | 49        |
| 50 | Hexylether Derivative of Pyropheophorbide-a (HPPH) on Conjugating with 3Gadolinium(III) Aminobenzyl-diethylenetriamine-pentaacetic Acid Shows Potential for in Vivo Tumor Imaging (MR). <i>Tj ETQq0 0 0 rg BT. Overlook 10 Tf 50</i>   | 3.6  | 35        |
| 51 | Synthesis of Tumor-Avid Photosensitizerâ€Gd(III)DTPA Conjugates: Impact of the Number of Gadolinium Units in T1/T2 Relaxivity, Intracellular localization, and Photosensitizing Efficacy. <i>Bioconjugate Chemistry</i> , 2010, 21, 816-827.  | 3.6  | 35        |
| 52 | Bifunctional Agents for Imaging and Therapy. <i>Methods in Molecular Biology</i> , 2010, 635, 223-259.   | 0.9  | 6         |
| 53 | Conjugation of 2-(1â€Hexyloxyethyl)-2-devinylpyropheophorbide-a (HPPH) to Carbohydrates Changes its Subcellular Distribution and Enhances Photodynamic Activity in Vivo. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 4306-4318.   | 6.4  | 87        |
| 54 | Highly Selective Synthesis of the Ring-B Reduced Chlorins by Ferric Chloride-Mediated Oxidation of Bacteriochlorins: Effects of the Fused Imide vs Isocyclic Ring on Photophysical and Electrochemical Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 14311-14323.                                 | 13.7 | 53        |

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|----|--|------|-----------|
| 55 | New Method for Delivering a Hydrophobic Drug for Photodynamic Therapy Using Pure Nanocrystal Form of the Drug. <i>Molecular Pharmaceutics</i> , 2007, 4, 289-297.  | 4.6  | 109       |
| 56 | Purpurinimide Carbohydrate Conjugates: Effect of the Position of the Carbohydrate Moiety in Photosensitizing Efficacy. <i>Molecular Pharmaceutics</i> , 2007, 4, 448-464.  | 4.6  | 63        |
| 57 | Organically Modified Silica Nanoparticles with Covalently Incorporated Photosensitizer for Photodynamic Therapy of Cancer. <i>Nano Letters</i> , 2007, 7, 2835-2842.   | 9.1  | 311       |
| 58 | Utility of Japp-Klingemann reaction for the preparation of 5-carboxy-6-chloroindole via Fischer indole protocol. <i>Tetrahedron Letters</i> , 2007, 48, 2353-2356.   | 1.4  | 9         |
| 59 | A First Comparative Study of Purpurinimide-based Fluorinated vs. Nonfluorinated Photosensitizers for Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2007, 76, 555-559.   | 2.5  | 0         |
| 60 | In Vivo Stability and Photodynamic Efficacy of Fluorinated Bacteriopurpurinimides Derived from Bacteriochlorophyll-a. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 1874-1881.   | 6.4  | 35        |
| 61 | Photosensitizers Derived from 132-Oxo-methyl Pyropheophorbide-a: Enhanced Effect of Indium(III) as a Central Metal in In Vitro and In Vivo Photosensitizing Efficacy. <i>Photochemistry and Photobiology</i> , 2006, 82, 626.  | 2.5  | 37        |
| 62 | Nature: A rich source for developing multifunctional agents. tumor-imaging and photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 2006, 38, 445-467.  | 2.1  | 155       |
| 63 | Investigation of human serum albumin (HSA) binding specificity of certain photosensitizers related to pyropheophorbide-a and bacteriopurpurinimide by circular dichroism spectroscopy and its correlation with in vivo photosensitizing efficacy. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3189-3192. | 2.2  | 17        |
| 64 | A Novel Approach to a Bifunctional Photosensitizer for Tumor Imaging and Phototherapy. <i>Bioconjugate Chemistry</i> , 2005, 16, 1264-1274.  | 3.6  | 90        |
| 65 | Chlorophyll-a Analogues Conjugated with Aminobenzyl-DTPA as Potential Bifunctional Agents for Magnetic Resonance Imaging and Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2005, 16, 32-42.  | 3.6  | 64        |
| 66 | Methyl Pyropheophorbide-a Analogues: Potential Fluorescent Probes for the Peripheral-Type Benzodiazepine Receptor. Effect of Central Metal in Photosensitizing Efficacy. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 3692-3695.  | 6.4  | 65        |
| 67 | Multimodality Agents for Tumor Imaging (PET, Fluorescence) and Photodynamic Therapy. A Possible See and Treat Approach. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 6286-6295.   | 6.4  | 111       |
| 68 | Production of an Ultra-Long-Lived Charge-Separated State in a Zinc Chlorin-C60 Dyad by One-Step Photoinduced Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 853-856.  | 13.8 | 206       |
| 69 | Structure-Activity Relationship of New Octaethylporphyrin-based Benzochlorins As Photosensitizers for Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2003, 77, 561-566.  | 2.5  | 0         |
| 70 | Fluorinated photosensitizers: synthesis, photophysical, electrochemical, intracellular localization, in vitro photosensitizing efficacy and determination of tumor-uptake by 19F in vivo NMR spectroscopy. <i>Tetrahedron</i> , 2003, 59, 10059-10073.   | 1.9  | 59        |
| 71 | Small Reorganization Energy of Intramolecular Electron Transfer in Fullerene-Based Dyads with Short Linkage. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10991-10998.  | 2.5  | 87        |
| 72 | Synthesis of $\beta$ -Galactose-Conjugated Chlorins Derived by Enyne Metathesis as Galectin-Specific Photosensitizers for Photodynamic Therapy. <i>Journal of Organic Chemistry</i> , 2001, 66, 8709-8716.   | 3.2  | 120       |

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|----|--|------|-----------|
| 73 | Synthesis, Photophysical Properties, Tumor Uptake, and Preliminary in Vivo Photosensitizing Efficacy of a Homologous Series of 3-(1-alkyloxy)ethyl-3-devinylpurpurin-18-N-alkylimides with Variable Lipophilicity. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 1540-1559.  | 6.4  | 194       |
| 74 | Effect of substituents in directing the regioselective synthesis of novel pyridinium chlorins. <i>Tetrahedron Letters</i> , 2000, 41, 6289-6294.   | 1.4  | 4         |
| 75 | Chlorin-based symmetrical and unsymmetrical dimers with amide linkages: effect of the substituents on photodynamic and photophysical properties. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 3113-3121.  | 1.3  | 33        |
| 76 | Wittig Reactions on Photoporphyrin IX: A New Synthetic Models for the Special Pair of the Photosynthetic Reaction Center. <i>Journal of Organic Chemistry</i> , 2000, 65, 543-557.   | 3.2  | 27        |
| 77 | Comparative mass spectrometric analyses of Photofrin oligomers by fast atom bombardment mass spectrometry, UV and IR matrix-assisted laser desorption/ionization mass spectrometry, electrospray ionization mass spectrometry and laser desorption/jet-cooling photoionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1999, 34, 661-669. | 1.6  | 44        |
| 78 | Synthesis of Mono- and Di(oxopyr)porphyrins: A New Approach through Ring Enlargement with Diazomethane. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 126-128.  | 13.8 | 32        |
| 79 | Effect of Substituents in Directing the Formation of Benzochlorins and Isobacteriochlorins in Porphyrin and Chlorin Systems. <i>Organic Letters</i> , 1999, 1, 1961-1964.  | 4.6  | 11        |
| 80 | Thermolysis of vic-Dihydroxybacteriochlorins: A New Approach for the Synthesis of Chlorin-Chlorin and Chlorin-Porphyrin Dimers. <i>Organic Letters</i> , 1999, 1, 1193-1196.   | 4.6  | 7         |
| 81 | Synthesis, Photophysical Properties, in Vivo Photosensitizing Efficacy, and Human Serum Albumin Binding Properties of Some Novel Bacteriochlorins. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 2770-2779.  | 6.4  | 96        |
| 82 | Correlation between Site II-Specific Human Serum Albumin (HSA) Binding Affinity and Murine in vivo Photosensitizing Efficacy of Some Photofrin Components. <i>Photochemistry and Photobiology</i> , 1997, 66, 224-228.   | 2.5  | 55        |
| 83 | Alkyl Ether Analogs of Chlorophyll <i>a</i> Derivatives: Part 1. Synthesis, Photophysical Properties and Photodynamic Efficacy. <i>Photochemistry and Photobiology</i> , 1996, 64, 194-204.  | 2.5  | 170       |
| 84 | Comparative in vivo sensitizing efficacy of porphyrin and chlorin dimers joined with ester, ether, carbon-carbon or amide bonds. <i>Journal of Molecular Recognition</i> , 1996, 9, 118-122.   | 2.1  | 16        |
| 85 | Regioselective syntheses of ether-linked porphyrin dimers and trimers related to photofrin-II. <i>Tetrahedron</i> , 1991, 47, 9571-9584.   | 1.9  | 35        |
| 86 | CHLORIN AND PORPHYRIN DERIVATIVES AS POTENTIAL PHOTOSENSITIZERS IN PHOTODYNAMIC THERAPY. <i>Photochemistry and Photobiology</i> , 1991, 53, 65-72.   | 2.5  | 175       |
| 87 | Efficient synthesis of porphyrin dimers with carbon-carbon linkages. <i>Tetrahedron Letters</i> , 1990, 31, 789-792.   | 1.4  | 47        |
| 88 | Fast atom bombardment mass spectral analyses of Photofrin II and its synthetic analogs. <i>Biological Mass Spectrometry</i> , 1990, 19, 405-414.   | 0.5  | 36        |