Ravindra K Pandey

List of Publications by Year
in descending order

88	6,485	94433 37	62596 80
papers	citations	h-index	g-index

90	90	90	7326
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of porphyrin chemistry in tumor imaging and photodynamic therapy. Chemical Society Reviews, 2011, 40, 340-362.	38.1	1,707
2	The unique features and promises of phthalocyanines as advanced photosensitisers for photodynamic therapy of cancer. Chemical Society Reviews, 2020, 49, 1041-1056.	38.1	486
3	Organically Modified Silica Nanoparticles with Covalently Incorporated Photosensitizer for Photodynamic Therapy of Cancer. Nano Letters, 2007, 7, 2835-2842.	9.1	311
4	Porphyrinâ€“phospholipid liposomes permeabilized by near-infrared light. Nature Communications, 2014, 5, 3546.	12.8	282
5	Production of an Ultra-Long-Lived Charge-Separated State in a Zinc Chlorinâ€“C60 Dyad by One-Step Photoinduced Electron Transfer. Angewandte Chemie - International Edition, 2004, 43, 853-856.	13.8	206
6	Synthesis, Photophysical Properties, Tumor Uptake, and Preliminary in Vivo Photosensitizing Efficacy of a Homologous Series of 3-(1â€˜-Alkyloxy)ethyl-3-devinylpurpurin-18-N-alkylimides with Variable Lipophilicityâ€. Journal of Medicinal Chemistry, 2001, 44, 1540-1559.	6.4	194
7	CHLORIN AND PORPHYRIN DERIVATIVES AS POTENTIAL PHOTOSENSITIZERS IN PHOTODYNAMIC THERAPY. Photochemistry and Photobiology, 1991, 53, 65-72.	2.5	175
8	Alkyl Ether Analogs of Chlorophyllâ€a Derivatives: Part 1. Synthesis, Photophysical Properties and Photodynamic Efficacy. Photochemistry and Photobiology, 1996, 64, 194-204.	2.5	170
9	Nature: A rich source for developing multifunctional agents. tumor-imaging and photodynamic therapy. Lasers in Surgery and Medicine, 2006, 38, 445-467.	2.1	155
10	Synthesis of Î²-Galactose-Conjugated Chlorins Derived by Enyne Metathesis as Galectin-Specific Photosensitizers for Photodynamic Therapy. Journal of Organic Chemistry, 2001, 66, 8709-8716.	3.2	120
11	Gold Nanocage-Photosensitizer Conjugates for Dual-Modal Image-Guided Enhanced Photodynamic Therapy. Theranostics, 2014, 4, 163-174.	10.0	113
12	Multimodality Agents for Tumor Imaging (PET, Fluorescence) and Photodynamic Therapy. A Possible â€œSee and Treatâ€•Approach. Journal of Medicinal Chemistry, 2005, 48, 6286-6295.	6.4	111
13	New Method for Delivering a Hydrophobic Drug for Photodynamic Therapy Using Pure Nanocrystal Form of the Drug. Molecular Pharmaceutics, 2007, 4, 289-297.	4.6	109
14	Multifunctional Biodegradable Polyacrylamide Nanocarriers for Cancer Theranosticsâ€”A â€œSee and Treatâ€•Strategy. ACS Nano, 2012, 6, 6843-6851.	14.6	109
15	Synthesis, Photophysical Properties,in VivoPhotosensitizing Efficacy, and Human Serum Albumin Binding Properties of Some Novel Bacteriochlorins. Journal of Medicinal Chemistry, 1997, 40, 2770-2779.	6.4	96
16	A Novel Approach to a Bifunctional Photosensitizer for Tumor Imaging and Phototherapy. Bioconjugate Chemistry, 2005, 16, 1264-1274.	3.6	90
17	Small Reorganization Energy of Intramolecular Electron Transfer in Fullerene-Based Dyads with Short Linkage. Journal of Physical Chemistry A, 2002, 106, 10991-10998.	2.5	87
18	Conjugation of 2-(1â€²-Hexyloxyethyl)-2-devinylpyropheophorbide-a (HPPH) to Carbohydrates Changes its Subcellular Distribution and Enhances Photodynamic Activity in Vivo. Journal of Medicinal Chemistry, 2009, 52, 4306-4318.	6.4	87

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19	Highly Effective Dual-Function Near-Infrared (NIR) Photosensitizer for Fluorescence Imaging and Photodynamic Therapy (PDT) of Cancer. Journal of Medicinal Chemistry, 2016, 59, 9774-9787.	6.4	77
20	Conjugation of cRGD Peptide to Chlorophyll a Based Photosensitizer (HPPH) Alters Its Pharmacokinetics with Enhanced Tumor-Imaging and Photosensitizing (PDT) Efficacy. Molecular Pharmaceutics, 2011, 8, 1186-1197.	4.6	69
21	Methyl Pyropheophorbide-aAnalogues:Â Potential Fluorescent Probes for the Peripheral-Type Benzodiazepine Receptor. Effect of Central Metal in Photosensitizing Efficacy. Journal of Medicinal Chemistry, 2005, 48, 3692-3695.	6.4	65
22	Chlorophyll-a Analogues Conjugated with Aminobenzyl-DTPA as Potential Bifunctional Agents for Magnetic Resonance Imaging and Photodynamic Therapy. Bioconjugate Chemistry, 2005, 16, 32-42.	3.6	64
23	Purpurinimide Carbohydrate Conjugates:â€‰ Effect of the Position of the Carbohydrate Moiety in Photosensitizing Efficacy. Molecular Pharmaceutics, 2007, 4, 448-464.	4.6	63
24	Porphyrin-based photosensitizers and the corresponding multifunctional nanoplatforms for cancer-imaging and phototherapy. Journal of Porphyrins and Phthalocyanines, 2015, 19, 109-134.	0.8	63
25	Fluorinated photosensitizers: synthesis, photophysical, electrochemical, intracellular localization, in vitro photosensitizing efficacy and determination of tumor-uptake by 19F in vivo NMR spectroscopy. Tetrahedron, 2003, 59, 10059-10073.	1.9	59
26	Multifunctional nanoplatforms for fluorescence imaging and photodynamic therapy developed by post-loading photosensitizer and fluorophore to polyacrylamide nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 941-950.	3.3	57
27	Correlation between Site II-Specific Human Serum Albumin (HSA) Binding Affinity and Murine in vivo Photosensitizing Efficacy of Some Photofrin Components. Photochemistry and Photobiology, 1997, 66, 224-228.	2.5	55
28	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. Journal of the American Chemical Society, 2008, 130, 14311-14323.	13.7	53
29	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. Molecular Pharmaceutics, 2010, 7, 1789-1804.	4.6	49
30	Novel methods to incorporate photosensitizers into nanocarriers for cancer treatment by photodynamic therapy. Lasers in Surgery and Medicine, 2011, 43, 686-695.	2.1	49
31	Efficient synthesis of porphyrin dimers with carbon-carbon linkages. Tetrahedron Letters, 1990, 31, 789-792.	1.4	47
32	Measurement of Cyanine Dye Photobleaching in Photosensitizer Cyanine Dye Conjugates Could Help in Optimizing Light Dosimetry for Improved Photodynamic Therapy of Cancer. Molecules, 2018, 23, 1842.	3.8	46
33	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. Journal of Mass Spectrometry, 1999, 34, 661-669.	1.6	44
34	Hexylether Derivative of Pyropheophorbide-a (HPPH) on Conjugating with 3Gadolinium(III) Aminobenzyldiethylenetriaminepentaacetic Acid Shows Potential for in Vivo Tumor Imaging (MR,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	44
35	Comparative Tumor Imaging and PDT Efficacy of HPPH Conjugated in the Mono- and Di-Forms to Various Polymethine Cyanine Dyes: Part - 2. Theranostics, 2013, 3, 703-718.	10.0	38
36	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. Photochemistry and Photobiology, 2006, 82, 626.	2.5	37

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37	Fast atom bombardment mass spectral analyses of Photofrin IIÂ® and its synthetic analogs. Biological Mass Spectrometry, 1990, 19, 405-414.	0.5	36
38	Regioselective syntheses of ether-linked porphyrin dimers and trimers related to photofrin-IIÂ®. Tetrahedron, 1991, 47, 9571-9584.	1.9	35
39	In Vivo Stability and Photodynamic Efficacy of Fluorinated Bacteriopurpurinimides Derived from Bacteriochlorophyll-a. Journal of Medicinal Chemistry, 2006, 49, 1874-1881.	6.4	35
40	Synthesis of Tumor-Avid Photosensitizerâˆ'Gd(III)DTPA Conjugates: Impact of the Number of Gadolinium Units in T1/T2 Relaxivity, Intracellular localization, and Photosensitizing Efficacy. Bioconjugate Chemistry, 2010, 21, 816-827.	3.6	35
41	TSPO 18 kDa (PBR) Targeted Photosensitizers for Cancer Imaging (PET) and PDT. ACS Medicinal Chemistry Letters, 2011, 2, 136-141.	2.8	34
42	Chlorin-based symmetrical and unsymmetrical dimers with amide linkages: effect of the substituents on photodynamic and photophysical properties. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 3113-3121.	1.3	33
43	Synthesis of Mono- and Di(oxopyri)porphyrins: A New Approach through Ring Enlargement with Diazomethane. Angewandte Chemie - International Edition, 1999, 38, 126-128.	13.8	32
44	Polyacrylamide-Based Biocompatible Nanoplatform Enhances the Tumor Uptake, PET/fluorescence Imaging and Anticancer Activity of a Chlorophyll Analog. Theranostics, 2014, 4, 614-628.	10.0	32
45	Effect of Metalation on Porphyrin-Based Bifunctional Agents in Tumor Imaging and Photodynamic Therapy. Bioconjugate Chemistry, 2016, 27, 667-680.	3.6	32
46	Sonodynamic therapy in combination with photodynamic therapy shows enhanced long-term cure of brain tumor. Scientific Reports, 2020, 10, 21791.	3.3	32
47	Epidermal Growth Factor Receptor-Targeted Multifunctional Photosensitizers for Bladder Cancer Imaging and Photodynamic Therapy. Journal of Medicinal Chemistry, 2019, 62, 2598-2617.	6.4	29
48	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-a and Bacteriochlorophyll-a. Journal of Medicinal Chemistry, 2011, 54, 6859-6873.	6.4	28
49	Cellâ€type Selective Phototoxicity Achieved with Chlorophyllâ€a Derived Photosensitizers in a Coâ€culture System of Primary Human Tumor and Normal Lung Cells. Photochemistry and Photobiology, 2011, 87, 1405-1418.	2.5	28
50	Wittig Reactions on Photoprotoporphyrin IX:Â New Synthetic Models for the Special Pair of the Photosynthetic Reaction Centerâ€. Journal of Organic Chemistry, 2000, 65, 543-557.	3.2	27
51	Design, synthesis, and biological evaluation of novel FAK scaffold inhibitors targeting the FAKâ€“VEGFR3 proteinâ€“protein interaction. European Journal of Medicinal Chemistry, 2014, 80, 154-166.	5.5	26
52	Remarkable Regioselective Position-10 Bromination of Bacteriopyropheophorbide-a and Ring-B Reduced Pyropheophorbide-a. Organic Letters, 2011, 13, 1956-1959.	4.6	24
53	Effect of chirality on cellular uptake, imaging and photodynamic therapy of photosensitizers derived from chlorophyll-a. Bioorganic and Medicinal Chemistry, 2015, 23, 3603-3617.	3.0	23
54	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). European Journal of Medicinal Chemistry, 2016, 122, 770-785.	5.5	22

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55	Handbook of Photodynamic Therapy. , 2016, , .		22
56	Structural and Epimeric Isomers of HPPH [3-Devinyl 3-{1-(1-hexyloxy) ethyl}pyropheophorbide-a]: Effects on Uptake and Photodynamic Therapy of Cancer. ACS Chemical Biology, 2017, 12, 933-946.	3.4	20
57	Synthesis, Tumor Specificity, and Photosensitizing Efficacy of Erlotinib-Conjugated Chlorins and Bacteriochlorins: Identification of a Highly Effective Candidate for Photodynamic Therapy of Cancer. Journal of Medicinal Chemistry, 2021, 64, 741-767.	6.4	20
58	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. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3189-3192.	2.2	17
59	Comparativein vivo sensitizing efficacy of porphyrin and chlorin dimers joined with ester, ether, carbonâ€“carbon or amide bonds. Journal of Molecular Recognition, 1996, 9, 118-122.	2.1	16
60	Regioselective Synthesis and Photophysical and Electrochemical Studies of 20â€Substituted Cyanine Dyeâ€“Purpurinimide Conjugates: Incorporation of Ni^{II} into the Conjugate Enhances its Tumorâ€Uptake and Fluorescenceâ€Imaging Ability. Chemistry - A European Journal, 2013, 19, 6670-6684.	3.3	16
61	Targeting the C-terminal focal adhesion kinase scaffold in pancreatic cancer. Cancer Letters, 2014, 353, 281-289.	7.2	15
62	Design and biological activity of novel stealth polymeric lipid nanoparticles for enhanced delivery of hydrophobic photodynamic therapy drugs. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2295-2305.	3.3	15
63	Targeted Nanoparticles for Fluorescence Imaging of Folate Receptor Positive Tumors. Biomolecules, 2020, 10, 1651.	4.0	13
64	Pluronic Fâ€127: An Efficient Delivery Vehicle for 3â€(1'â€hexyloxy)ethylâ€3â€devinylpyropheophorbideâ€a (HPPH or) Tj ETQq0 0 0 rgB	2.5	12
65	Effect of Substituents in Directing the Formation of Benzochlorins and Isobacteriochlorins in Porphyrin and Chlorin Systems. Organic Letters, 1999, 1, 1961-1964.	4.6	11
66	The Structures of Gd(III) Chelates Conjugated at the Periphery of 3â€(1â€™â€Hexyloxy)ethylâ€3â€devinylpyropheophorbideâ€a (HPPH) Have a Significant Impact on the Imaging and Therapy of Cancer. ChemMedChem, 2020, 15, 2058-2070.	3.2	11
67	Chiral Alkyl Groups at Position 3(1â€²) of Pyropheophorbide-a Specify Uptake and Retention by Tumor Cells and Are Essential for Effective Photodynamic Therapy. Journal of Medicinal Chemistry, 2021, 64, 4787-4809.	6.4	11
68	Utility of Jappâ€“Klingemann reaction for the preparation of 5-carboxy-6-chloroindole via Fischer indole protocol. Tetrahedron Letters, 2007, 48, 2353-2356.	1.4	9
69	Impact of Substituents in Tumor Uptake and Fluorescence Imaging Ability of Nearâ€Infrared Cyanineâ€like Dyes. Photochemistry and Photobiology, 2015, 91, 1219-1230.	2.5	9
70	Photodynamic Therapy in Combination with Doxorubicin Is Superior to Monotherapy for the Treatment of Lung Cancer. Biomedicines, 2022, 10, 857.	3.2	9
71	meso â€•and Î²â€Pyrroleâ€Linked Chlorinâ€Bacteriochlorin Dyads for Promoting Farâ€Red FRET and Singlet Oxygen Production. Chemistry - A European Journal, 2020, 26, 14996-15006.	3.3	8
72	Role of tumor microenvironment in the efficacy of BCG therapy. Trends in Research, 2020, 3, .	0.2	8

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73	Thermolysis ofvic-Dihydroxybacteriochlorins:Â A New Approach for the Synthesis of Chlorinâ^'Chlorin and Chlorinâ^'Porphyrin Dimers. Organic Letters, 1999, 1, 1193-1196.	4.6	7
74	Bifunctional Agents for Imaging and Therapy. Methods in Molecular Biology, 2010, 635, 223-259.	0.9	6
75	A Pyropheophorbide Analogue Containing a Fused Methoxy Cyclohexenone Ring System Shows Promising Cancerâ€Imaging Ability. ChemMedChem, 2019, 14, 1503-1513.	3.2	6
76	Highlights on the imaging (nuclear/fluorescence) and phototherapeutic potential of a tri-functional chlorophyll-a analog with no significant toxicity in mice and rats. Journal of Photochemistry and Photobiology B: Biology, 2020, 211, 111998.	3.8	5
77	Charged groups on pyropheophorbide-based photosensitizers dictate uptake by tumor cells and photodynamic therapy efficacy. Journal of Photochemistry and Photobiology B: Biology, 2022, 227, 112375.	3.8	5
78	Tumor cell-specific retention of photosensitizers determines the outcome of photodynamic therapy for head and neck cancer. Journal of Photochemistry and Photobiology B: Biology, 2022, 234, 112513.	3.8	5
79	Effect of substituents in directing the regioselective synthesis of novel pyridinium chlorins. Tetrahedron Letters, 2000, 41, 6289-6294.	1.4	4
80	Whole body and local hyperthermia enhances the photosensitizing efficacy of 3â€[(1â€²â€hexyloxy)ethyl]â€3â€Devinylpyropheophorbideâ€a (HPPH). Lasers in Surgery and Medicine, 2018, 50, 506-512.	2.1	3
81	Phototriggered Release of Tumor-Imaging and Therapy Agents from Lyophilized Multifunctional Polyacrylamide Nanoparticles. ACS Applied Bio Materials, 2019, 2, 5663-5675.	4.6	3
82	Meso â€Biphenylâ€Linked, Nearâ€•and Farâ€Infrared Emitting, Chlorin and Bacteriochlorin Dimers: Synthesis, Excitation Transfer, and Singlet Oxygen Production. ChemPlusChem, 2021, 86, 674-680.	2.8	3
83	Tumor-Avid 3-(1â€²-Hexyloxy)ethyl-3-devinylpyrpyropheophorbide-a (HPPH)-3Gd(III)tetraxetan (DOTA) Conjugate Defines Primary Tumors and Metastases. Journal of Medicinal Chemistry, 2022, 65, 9267-9280.	6.4	3
84	AN IODINE LABELED PORPHYRIN AS A NEW RADIATION SENSITIZER IN HUMAN BLADDER CANCER CELLS IN VITRO AND IN VIVO, COMBINING PHOTODYMAMIC THERAPY (PDT) WITH PHOTON ACTIVATION THERAPY (PAT). Journal of the Nihon University Medical Association, 2013, 72, 212-219.	0.0	1
85	Multifunctional Agents for Cancer-Imaging and Photodynamic Therapy: Impact of Polyacrylamide-Based Nanoplatforms. , 2016, , 3-43.		1
86	Structure-Activity Relationship of New Octaethylporphyrin-based Benzochlorins As Photosensitizers for Photodynamic Therapy Â¶. Photochemistry and Photobiology, 2003, 77, 561-566.	2.5	0
87	A First Comparative Study of Purpurinimide-based Fluorinated vs. Nonfluorinated Photosensitizers for Photodynamic TherapyÂ¶. Photochemistry and Photobiology, 2007, 76, 555-559.	2.5	0
88	Impact of Mono- and Di-Î²-Galactose Moieties in in vitro / in vivo Anticancer Efficacy of Pyropheophorbide-Carbohydrate Conjugates by Photodynamic Therapy. European Journal of Medicinal Chemistry Reports, 2022, , 100047.	1.4	0