Dean Ho

List of Publications by Citations

90 papers	7,758 citations	39 h-index	88 g-index
111 ext. papers	8,673 ext. citations	10.1 avg, IF	6.29 L-index

#	Paper	IF	Citations
90	The properties and applications of nanodiamonds. *Nature Nanotechnology*, **2011**, 7, 11-23	28.7	1955
89	Active nanodiamond hydrogels for chemotherapeutic delivery. *Nano Letters*, **2007**, 7, 3305-14	11.5	471
88	Nanodiamond therapeutic delivery agents mediate enhanced chemoresistant tumor treatment. *Science Translational Medicine*, **2011**, 3, 73ra21	17.5	421
87	Cancer nanomedicine: from drug delivery to imaging. *Science Translational Medicine*, **2013**, 5, 216rv4	17.5	351
86	Polymer-functionalized nanodiamond platforms as vehicles for gene delivery. *ACS Nano*, **2009**, 3, 2609-16	16.7	316
85	Gd(III)-nanodiamond conjugates for MRI contrast enhancement. *Nano Letters*, **2010**, 10, 484-9	11.5	261
84	Nanodiamond-mediated delivery of water-insoluble therapeutics. *ACS Nano*, **2009**, 3, 2016-22	16.7	258
83	Accelerating the Translation of Nanomaterials in Biomedicine. *ACS Nano*, **2015**, 9, 6644-54	16.7	220
82	Nanodiamond-insulin complexes as pH-dependent protein delivery vehicles. *Biomaterials*, **2009**, 30, 5720-8	15.6	219
81	Protein-mediated assembly of nanodiamond hydrogels into a biocompatible and biofunctional multilayer nanofilm. *ACS Nano*, **2008**, 2, 203-12	16.7	190
80	Multimodal nanodiamond drug delivery carriers for selective targeting, imaging, and enhanced chemotherapeutic efficacy. *Advanced Materials*, **2011**, 23, 4770-5	24	186
79	Nanodiamond-embedded microfilm devices for localized chemotherapeutic elution. *ACS Nano*, **2008**, 2, 2095-102	16.7	164
78	Diamond nanogel-embedded contact lenses mediate lysozyme-dependent therapeutic release. *ACS Nano*, **2014**, 8, 2998-3005	16.7	151
77	Epirubicin-adsorbed nanodiamonds kill chemoresistant hepatic cancer stem cells. *ACS Nano*, **2014**, 8, 12151-66	16.7	143
76	Nanodiamonds: The intersection of nanotechnology, drug development, and personalized medicine. *Science Advances*, **2015**, 1, e1500439	14.3	141
75	Nanodiamond Vectors Functionalized with Polyethylenimine for siRNA Delivery. *Journal of Physical Chemistry Letters*, **2010**, 1, 3167-3171	6.4	118
74	Clinical Applications of Carbon Nanomaterials in Diagnostics and Therapy. *Advanced Materials*, **2018**, 30, e1802368	24	100

73	Strategy for increasing drug solubility and efficacy through covalent attachment to polyvalent DNA-nanoparticle conjugates. *ACS Nano*, **2011**, 5, 6962-70	16.7	100
72	Beyond the sparkle: the impact of nanodiamonds as biolabeling and therapeutic agents. *ACS Nano*, **2009**, 3, 3825-9	16.7	100
71	Convection-enhanced delivery of nanodiamond drug delivery platforms for intracranial tumor treatment. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 381-91	6	99
70	Nanodiamond-Gutta Percha Composite Biomaterials for Root Canal Therapy. *ACS Nano*, **2015**, 9, 11490-501	16.7	98
69	Diamond-lipid hybrids enhance chemotherapeutic tolerance and mediate tumor regression. *Advanced Materials*, **2013**, 25, 3532-41	24	97
68	Atomistic simulation and measurement of pH dependent cancer therapeutic interactions with nanodiamond carrier. *Molecular Pharmaceutics*, **2011**, 8, 368-74	5.6	97
67	Biocompatibility Assessment of Detonation Nanodiamond in Non-Human Primates and Rats Using Histological, Hematologic, and Urine Analysis. *ACS Nano*, **2016**, 10, 7385-400	16.7	91
66	Triggered release of therapeutic antibodies from nanodiamond complexes. *Nanoscale*, **2011**, 3, 2844-8	7.7	89
65	Nanodiamond-mediated drug delivery and imaging: challenges and opportunities. *Expert Opinion on Drug Delivery*, **2015**, 12, 735-49	8	85
64	Mechanism-independent optimization of combinatorial nanodiamond and unmodified drug delivery using a phenotypically driven platform technology. *ACS Nano*, **2015**, 9, 3332-44	16.7	77
63	Consequences of strong and diverse electrostatic potential fields on the surface of detonation nanodiamond particles. *Diamond and Related Materials*, **2009**, 18, 904-909	3.5	76
62	Enabling Technologies for Personalized and Precision Medicine. *Trends in Biotechnology*, **2020**, 38, 497-518	13.1	71
61	Individualizing liver transplant immunosuppression using a phenotypic personalized medicine platform. *Science Translational Medicine*, **2016**, 8, 333ra49	17.5	71
60	Nanodiamond-mitoxantrone complexes enhance drug retention in chemoresistant breast cancer cells. *Molecular Pharmaceutics*, **2014**, 11, 2683-91	5.6	68
59	Synthesis of nanodiamond-daunorubicin conjugates to overcome multidrug chemoresistance in leukemia. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 359-69	6	63
58	Comprehensive interrogation of the cellular response to fluorescent, detonation and functionalized nanodiamonds. *Nanoscale*, **2014**, 6, 11712-21	7.7	55
57	Theranostic Nanoparticles for Tracking and Monitoring Disease State. *SLAS Technology*, **2018**, 23, 281-293	3	50
56	Nanodiamond-Gadolinium(III) Aggregates for Tracking Cancer Growth In Vivo at High Field. *Nano Letters*, **2016**, 16, 7551-7564	11.5	44

55	Clinical validation of a nanodiamond-embedded thermoplastic biomaterial. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9445-E9454	11.5	43
54	Optimizing drug combinations against multiple myeloma using a quadratic phenotypic optimization platform (QPOP). *Science Translational Medicine*, **2018**, 10,	17.5	43
53	Multiscale modeling and uncertainty quantification in nanoparticle-mediated drug/gene delivery. *Computational Mechanics*, **2014**, 53, 511-537	4	43
52	Artificial intelligence in nanomedicine. *Nanoscale Horizons*, **2019**, 4, 365-377	10.8	41
51	Modulating BET Bromodomain Inhibitor ZEN-3694 and Enzalutamide Combination Dosing in a Metastatic Prostate Cancer Patient Using CURATE.AI, an Artificial Intelligence Platform. *Advanced Therapeutics*, **2018**, 1, 1800104	4.9	38
50	Artificial intelligence in cancer therapy. *Science*, **2020**, 367, 982-983	33.3	36
49	Diamond as a nanomedical agent for versatile applications in drug delivery, imaging, and sensing. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 1609-1618	1.6	35
48	Addressing COVID-19 Drug Development with Artificial Intelligence. *Advanced Intelligent Systems*, **2020**, 2, 2000070	6	28
47	Ultrananocrystalline diamond thin films functionalized with therapeutically active collagen networks. *Journal of Physical Chemistry B*, **2009**, 113, 2966-71	3.4	27
46	Project IDentif.AI: Harnessing Artificial Intelligence to Rapidly Optimize Combination Therapy Development for Infectious Disease Intervention. *Advanced Therapeutics*, **2020**, 3, 2000034	4.9	26
45	Identification and Optimization of Combinatorial Glucose Metabolism Inhibitors in Hepatocellular Carcinomas. *Journal of the Association for Laboratory Automation*, **2015**, 20, 423-37		25
44	Diamonds, Digital Health, and Drug Development: Optimizing Combinatorial Nanomedicine. *ACS Nano*, **2016**, 10, 9087-9092	16.7	25
43	Optimizing Combination Therapy for Acute Lymphoblastic Leukemia Using a Phenotypic Personalized Medicine Digital Health Platform: Retrospective Optimization Individualizes Patient Regimens to Maximize Efficacy and Safety. *SLAS Technology*, **2017**, 22, 276-288	3	20
42	Fabrication of biofunctional nanomaterials via Escherichia coli OmpF protein air/water interface insertion/integration with copolymeric amphiphiles. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2006**, 2, 103-12	6	18
41	Nanomanufacturing and characterization modalities for bio-nano-informatics systems. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 875-91	1.3	18
40	Reducing posttreatment relapse in cleft lip palatal expansion using an injectable estrogen-nanodiamond hydrogel. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7218-E7225	11.5	16
39	Nanodiamond-based chemotherapy and imaging. *Cancer Treatment and Research*, **2015**, 166, 85-102	3.5	16
38	Nanodiamond-therapeutic complexes embedded within poly(ethylene glycol) diacrylate hydrogels mediating sequential drug elution. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 1811-1818	1.6	15

37	Harnessing CURATE.AI as a Digital Therapeutics Platform by Identifying N-of-1 Learning Trajectory Profiles. *Advanced Therapeutics*, **2019**, 2, 1900023	4.9	14
36	Nanomedicine for global health. *Journal of the Association for Laboratory Automation*, **2014**, 19, 511-6		13
35	Blockchain applications in health care for COVID-19 and beyond: a systematic review. *The Lancet Digital Health*, **2021**, 3, e819-e829	14.4	13
34	Combinatorial release of dexamethasone and amiodarone from a nano-structured parylene-C film to reduce perioperative inflammation and atrial fibrillation. *Nanoscale*, **2016**, 8, 4267-75	7.7	12
33	IDentif.AI: Rapidly optimizing combination therapy design against severe Acute Respiratory Syndrome Coronavirus 2 (SARS-Cov-2) with digital drug development. *Bioengineering and Translational Medicine*, **2021**, 6, e10196	14.8	9
32	Harnessing Artificial Intelligence to Optimize Long-Term Maintenance Dosing for Antiretroviral-Naive Adults with HIV-1 Infection. *Advanced Therapeutics*, **2020**, 3, 1900114	4.9	7
31	Water-Soluble Nanoconjugate for Enhanced Cellular Delivery of Receptor-Targeted Magnetic Resonance Contrast Agents. *Bioconjugate Chemistry*, **2019**, 30, 2947-2957	6.3	6
30	System control-mediated drug delivery towards complex systems via nanodiamond carriers. *International Journal of Smart and Nano Materials*, **2010**, 1, 69-81	3.6	6
29	The role of artificial intelligence in scaling nanomedicine toward broad clinical impact **2020**, 385-407		6
28	Harnessing an Artificial Intelligence Platform to Dynamically Individualize Combination Therapy for Treating Colorectal Carcinoma in a Rat Model. *Advanced Therapeutics*, **2020**, 3, 1900127	4.9	5
27	Fighting viruses with materials science: Prospects for antivirus surfaces, drug delivery systems and artificial intelligence. *Dental Materials*, **2021**, 37, 496-507	5.7	5
26	Improving the therapeutic ratio of radiotherapy against radioresistant cancers: Leveraging on novel artificial intelligence-based approaches for drug combination discovery. *Cancer Letters*, **2021**, 511, 56-67	9.9	5
25	Engineering novel diagnostic modalities and implantable cytomimetic nanomaterials for next-generation medicine. *Biology of Blood and Marrow Transplantation*, **2006**, 12, 92-9	4.7	4
24	Personalised, Rational, Efficacy-Driven Cancer Drug Dosing an Artificial Intelligence SystEm (PRECISE): A Protocol for the PRECISE CURATE.AI Pilot Clinical Trial. *Frontiers in Digital Health*, **2021**, 3, 635524	2.3	4
23	Synthesis and Characterization of Nanodiamond-Growth Factor Complexes Toward Applications in Oral Implantation and Regenerative Medicine. *Journal of Oral Implantology*, **2018**, 44, 207-211	1.2	3
22	The new interface of technology and medicine. *IEEE Nanotechnology Magazine*, **2008**, 2, 9-13	1.7	3
21	Reconstitution of energy converting proteins in biocompatible materials		3
20	Abstract CT268: CURATE.AI-optimized modulation for multiple myeloma: An N-of-1 randomized trial **2020**,		3

19	Harnessing CURATE.AI for N-of-1 Optimization Analysis of Combination Therapy in Hypertension Patients: A Retrospective Case Series. *Advanced Therapeutics*, **2021**, 4, 2100091	4.9	3
18	Gold nanoparticle-mediated detection of melamine based on a dual colorimetric and turbidometric readouts **2010**,		2
17	Engineering Intelligent Materials for the Interrogation of Bio-robotic Architectures and Regulatory Networks **2006**,		2
16	Meniscus-Assisted Magnetic Bead Trapping on Ewod-Based Digital Microfluidics for Specific Protein Localization **2007**,		2
15	Block Copolymer-Based Biomembranes Functionalized with Energy Transduction Proteins. *Materials Research Society Symposia Proceedings*, **2004**, 823, W11.8.1		2
14	Safety evaluation of nanodiamond-doxorubicin complexes in a Naïve Beagle canine model using hematologic, histological, and urine analysis. *Nano Research*,1	10	2
13	Cancer Therapy: Diamond-Lipid Hybrids Enhance Chemotherapeutic Tolerance and Mediate Tumor Regression (Adv. Mater. 26/2013). *Advanced Materials*, **2013**, 25, 3502-3502	24	1
12	Dynamic Cellular Adhesion Mediated by Copolymeric Nanofilm Substrates. *Journal of the Association for Laboratory Automation*, **2008**, 13, 206-214		1
11	Hybrid protein/polymer biomimetic membranes		1
10	Characteristics of Mobile Health Platforms for Depression and Anxiety: Content Analysis Through a Systematic Review of the Literature and Systematic Search of Two App Stores.. *Journal of Medical Internet Research*, **2022**, 24, e27388	7.6	1
9	IDentif.AI: Artificial Intelligence Pinpoints Remdesivir in Combination with Ritonavir and Lopinavir as an Optimal Regimen Against Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)		1
8	Understanding the user: Patients perception, needs, and concerns of health apps for chronic constipation. *Digital Health*, **2022**, 8, 205520762211046	4	0
7	Overcoming Pilotitis in Digital Medicine at the Intersection of Data, Clinical Evidence, and Adoption. *Advanced Intelligent Systems*,2200056	6	0
6	Introducing the 2014 JALA Ten Honorees. *Journal of the Association for Laboratory Automation*, **2014**, 19, 119-124		
5	Introducing the 2013 JALA Ten. *Journal of the Association for Laboratory Automation*, **2013**, 18, 105-110		
4	From the Editor-in-Chief: The JALA Special Issues on Robotics in Laboratory Automation. *Journal of the Association for Laboratory Automation*, **2012**, 17, 323		
3	From the Editor-in-Chief: The 2013 JALA Ten: Call for Nominations. *Journal of the Association for Laboratory Automation*, **2012**, 17, 165		
2	A Combinatorial Approach Towards Functionalizing Copolymers with Effector Molecules that Attenuate Cyto-inflammatory Responses at the Biotic-abiotic Interface. *Materials Research Society Symposia Proceedings*, **2007**, 1009, 1		

List of Publications

1	WisDM Green: Harnessing Artificial Intelligence to Design and Prioritize Compound Combinations in Peat Moss for Sustainable Farming Applications. *Advanced Intelligent Systems*,2200095	6