

# Dean Ho

## List of Publications by Year in descending order

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105  
papers

9,676  
citations

66336

42  
h-index

56717

83  
g-index

111  
all docs

111  
docs citations

111  
times ranked

10183  
citing authors

#	ARTICLE	IF	CITATIONS
1	The properties and applications of nanodiamonds. <i>Nature Nanotechnology</i> , 2012, 7, 11-23.	31.5	2,327
2	Active Nanodiamond Hydrogels for Chemotherapeutic Delivery. <i>Nano Letters</i> , 2007, 7, 3305-3314.	9.1	535
3	Nanodiamond Therapeutic Delivery Agents Mediate Enhanced Chemoresistant Tumor Treatment. <i>Science Translational Medicine</i> , 2011, 3, 73ra21.	12.4	484
4	Cancer Nanomedicine: From Drug Delivery to Imaging. <i>Science Translational Medicine</i> , 2013, 5, 216rv4.	12.4	404
5	Polymer-Functionalized Nanodiamond Platforms as Vehicles for Gene Delivery. <i>ACS Nano</i> , 2009, 3, 2609-2616.	14.6	362
6	Gd(III)-Nanodiamond Conjugates for MRI Contrast Enhancement. <i>Nano Letters</i> , 2010, 10, 484-489.	9.1	294
7	Nanodiamond-Mediated Delivery of Water-Insoluble Therapeutics. <i>ACS Nano</i> , 2009, 3, 2016-2022.	14.6	293
8	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015, 9, 6644-6654.	14.6	279
9	Nanodiamond-insulin complexes as pH-dependent protein delivery vehicles. <i>Biomaterials</i> , 2009, 30, 5720-5728.	11.4	248
10	Multimodal Nanodiamond Drug Delivery Carriers for Selective Targeting, Imaging, and Enhanced Chemotherapeutic Efficacy. <i>Advanced Materials</i> , 2011, 23, 4770-4775.	21.0	216
11	Protein-Mediated Assembly of Nanodiamond Hydrogels into a Biocompatible and Biofunctional Multilayer Nanofilm. <i>ACS Nano</i> , 2008, 2, 203-212.	14.6	206
12	Diamond Nanogel-Embedded Contact Lenses Mediate Lysozyme-Dependent Therapeutic Release. <i>ACS Nano</i> , 2014, 8, 2998-3005.	14.6	187
13	Nanodiamond-Embedded Microfilm Devices for Localized Chemotherapeutic Elution. <i>ACS Nano</i> , 2008, 2, 2095-2102.	14.6	181
14	Nanodiamonds: The intersection of nanotechnology, drug development, and personalized medicine. <i>Science Advances</i> , 2015, 1, e1500439.	10.3	172
15	Epirubicin-Adsorbed Nanodiamonds Kill Chemoresistant Hepatic Cancer Stem Cells. <i>ACS Nano</i> , 2014, 8, 12151-12166.	14.6	170
16	Enabling Technologies for Personalized and Precision Medicine. <i>Trends in Biotechnology</i> , 2020, 38, 497-518.	9.3	169
17	Clinical Applications of Carbon Nanomaterials in Diagnostics and Therapy. <i>Advanced Materials</i> , 2018, 30, e1802368.	21.0	149
18	Nanodiamond Vectors Functionalized with Polyethylenimine for siRNA Delivery. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3167-3171.	4.6	146

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19	Nanodiamondâ€“Gutta Percha Composite Biomaterials for Root Canal Therapy. <i>ACS Nano</i> , 2015, 9, 11490-11501.	14.6	128
20	Convection-enhanced delivery of nanodiamond drug delivery platforms for intracranial tumor treatment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 381-391.	3.3	127
21	Atomistic Simulation and Measurement of pH Dependent Cancer Therapeutic Interactions with Nanodiamond Carrier. <i>Molecular Pharmaceutics</i> , 2011, 8, 368-374.	4.6	117
22	Biocompatibility Assessment of Detonation Nanodiamond in Non-Human Primates and Rats Using Histological, Hematologic, and Urine Analysis. <i>ACS Nano</i> , 2016, 10, 7385-7400.	14.6	117
23	Strategy for Increasing Drug Solubility and Efficacy through Covalent Attachment to Polyvalent DNAâ€“Nanoparticle Conjugates. <i>ACS Nano</i> , 2011, 5, 6962-6970.	14.6	114
24	Mechanism-Independent Optimization of Combinatorial Nanodiamond and Unmodified Drug Delivery Using a Phenotypically Driven Platform Technology. <i>ACS Nano</i> , 2015, 9, 3332-3344.	14.6	109
25	Individualizing liver transplant immunosuppression using a phenotypic personalized medicine platform. <i>Science Translational Medicine</i> , 2016, 8, 333ra49.	12.4	108
26	Beyond the Sparkle: The Impact of Nanodiamonds as Biolabeling and Therapeutic Agents. <i>ACS Nano</i> , 2009, 3, 3825-3829.	14.6	107
27	Diamondâ€“Lipid Hybrids Enhance Chemotherapeutic Tolerance and Mediate Tumor Regression. <i>Advanced Materials</i> , 2013, 25, 3532-3541.	21.0	107
28	Nanodiamond-mediated drug delivery and imaging: challenges and opportunities. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 735-749.	5.0	107
29	Triggered release of therapeutic antibodies from nanodiamond complexes. <i>Nanoscale</i> , 2011, 3, 2844.	5.6	98
30	Nanodiamondâ€“Mitoxantrone Complexes Enhance Drug Retention in Chemoresistant Breast Cancer Cells. <i>Molecular Pharmaceutics</i> , 2014, 11, 2683-2691.	4.6	83
31	Consequences of strong and diverse electrostatic potential fields on the surface of detonation nanodiamond particles. <i>Diamond and Related Materials</i> , 2009, 18, 904-909.	3.9	82
32	Artificial intelligence in cancer therapy. <i>Science</i> , 2020, 367, 982-983.	12.6	82
33	Optimizing drug combinations against multiple myeloma using a quadratic phenotypic optimization platform (QPOP). <i>Science Translational Medicine</i> , 2018, 10, .	12.4	80
34	Artificial intelligence in nanomedicine. <i>Nanoscale Horizons</i> , 2019, 4, 365-377.	8.0	80
35	Theranostic Nanoparticles for Tracking and Monitoring Disease State. <i>SLAS Technology</i> , 2018, 23, 281-293.	1.9	79
36	Blockchain applications in health care for COVID-19 and beyond: a systematic review. <i>The Lancet Digital Health</i> , 2021, 3, e819-e829.	12.3	77

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37	Modulating BET Bromodomain Inhibitor ZEN-3694 and Enzalutamide Combination Dosing in a Metastatic Prostate Cancer Patient Using CURATE.AI, an Artificial Intelligence Platform. <i>Advanced Therapeutics</i> , 2018, 1, 1800104.	3.2	76
38	Synthesis of nanodiamond- <i>daunorubicin</i> conjugates to overcome multidrug chemoresistance in leukemia. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 359-369.	3.3	74
39	Comprehensive interrogation of the cellular response to fluorescent, detonation and functionalized nanodiamonds. <i>Nanoscale</i> , 2014, 6, 11712-11721.	5.6	71
40	Nanodiamond-Gadolinium(III) Aggregates for Tracking Cancer Growth In Vivo at High Field. <i>Nano Letters</i> , 2016, 16, 7551-7564.	9.1	60
41	Clinical validation of a nanodiamond-embedded thermoplastic biomaterial. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9445-E9454.	7.1	55
42	Multiscale modeling and uncertainty quantification in nanoparticle-mediated drug/gene delivery. <i>Computational Mechanics</i> , 2014, 53, 511-537.	4.0	52
43	Project IDentif.AI: Harnessing Artificial Intelligence to Rapidly Optimize Combination Therapy Development for Infectious Disease Intervention. <i>Advanced Therapeutics</i> , 2020, 3, 2000034.	3.2	44
44	Addressing COVID-19 Drug Development with Artificial Intelligence. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000070.	6.1	41
45	Diamond as a nanomedical agent for versatile applications in drug delivery, imaging, and sensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1609-1618.	1.8	40
46	Identification and Optimization of Combinatorial Glucose Metabolism Inhibitors in Hepatocellular Carcinomas. <i>Journal of the Association for Laboratory Automation</i> , 2015, 20, 423-437.	2.8	35
47	Ultrananocrystalline Diamond Thin Films Functionalized with Therapeutically Active Collagen Networks. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2966-2971.	2.6	31
48	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. <i>SLAS Technology</i> , 2017, 22, 276-288.	1.9	30
49	Diamonds, Digital Health, and Drug Development: Optimizing Combinatorial Nanomedicine. <i>ACS Nano</i> , 2016, 10, 9087-9092.	14.6	29
50	Harnessing CURATE.AI as a Digital Therapeutics Platform by Identifying <i>Learning Trajectory Profiles</i> . <i>Advanced Therapeutics</i> , 2019, 2, 1900023.	3.2	27
51	IDentif.AI: Rapidly optimizing combination therapy design against severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) with digital drug development. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10196.	7.1	27
52	Fabrication of biofunctional nanomaterials via <i>Escherichia coli</i> OmpF protein air/water interface insertion/integration with copolymeric amphiphiles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2006, 2, 103-112.	3.3	23
53	Reducing posttreatment relapse in cleft lip palatal expansion using an injectable estrogen nanodiamond hydrogel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7218-E7225.	7.1	20
54	Combinatorial release of dexamethasone and amiodarone from a nano-structured parylene-C film to reduce perioperative inflammation and atrial fibrillation. <i>Nanoscale</i> , 2016, 8, 4267-4275.	5.6	19

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55	Nanomanufacturing and Characterization Modalities for Bio-Nano-Informatics Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 875-891.	0.9	18
56	Nanodiamond-Based Chemotherapy and Imaging. <i>Cancer Treatment and Research</i> , 2015, 166, 85-102.	0.5	18
57	Personalised, Rational, Efficacy-Driven Cancer Drug Dosing via an Artificial Intelligence System (PRECISE): A Protocol for the PRECISE CURATE.AI Pilot Clinical Trial. <i>Frontiers in Digital Health</i> , 2021, 3, 635524.	2.8	18
58	Nanodiamond-therapeutic complexes embedded within poly(ethylene glycol) diacrylate hydrogels mediating sequential drug elution. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1811-1818.	1.8	17
59	Harnessing Artificial Intelligence to Optimize Long-Term Maintenance Dosing for Antiretroviral-Naive Adults with HIV-1 Infection. <i>Advanced Therapeutics</i> , 2020, 3, 1900114.	3.2	17
60	Nanomedicine for Global Health. <i>Journal of the Association for Laboratory Automation</i> , 2014, 19, 511-516.	2.8	15
61	Fighting viruses with materials science: Prospects for antiviral surfaces, drug delivery systems and artificial intelligence. <i>Dental Materials</i> , 2021, 37, 496-507.	3.5	12
62	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. <i>Journal of Medical Internet Research</i> , 2022, 24, e27388.	4.3	12
63	Water-Soluble Nanoconjugate for Enhanced Cellular Delivery of Receptor-Targeted Magnetic Resonance Contrast Agents. <i>Bioconjugate Chemistry</i> , 2019, 30, 2947-2957.	3.6	11
64	Improving the therapeutic ratio of radiotherapy against radioresistant cancers: Leveraging on novel artificial intelligence-based approaches for drug combination discovery. <i>Cancer Letters</i> , 2021, 511, 56-67.	7.2	11
65	Safety evaluation of nanodiamond-doxorubicin complexes in a Naïve Beagle canine model using hematologic, histological, and urine analysis. <i>Nano Research</i> , 2022, 15, 3356-3366.	10.4	11
66	Overcoming Pilotitis in Digital Medicine at the Intersection of Data, Clinical Evidence, and Adoption. <i>Advanced Intelligent Systems</i> , 0, , 2200056.	6.1	11
67	The IDentif.AI-x pandemic readiness platform: Rapid prioritization of optimized COVID-19 combination therapy regimens. <i>Npj Digital Medicine</i> , 2022, 5, .	10.9	11
68	Harnessing CURATE.AI for Optimization Analysis of Combination Therapy in Hypertension Patients: A Retrospective Case Series. <i>Advanced Therapeutics</i> , 2021, 4, 2100091.	3.2	10
69	The role of artificial intelligence in scaling nanomedicine toward broad clinical impact. , 2020, , 385-407.		8
70	Digital Nanomedicine: A New Frontier for Drug Development. <i>ACS Nano</i> , 2022, 16, 3435-3437.	14.6	8
71	A Systematic Review of the Development and Psychometric Properties of Constipation-Related Patient-Reported Outcome Measures: Opportunities for Digital Health. <i>Journal of Neurogastroenterology and Motility</i> , 2022, 28, 376-389.	2.4	8
72	Harnessing an Artificial Intelligence Platform to Dynamically Individualize Combination Therapy for Treating Colorectal Carcinoma in a Rat Model. <i>Advanced Therapeutics</i> , 2020, 3, 1900127.	3.2	7

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73	System control-mediated drug delivery towards complex systems via nanodiamond carriers. International Journal of Smart and Nano Materials, 2010, 1, 69-81.	4.2	6
74	Making N-of-1 Medicine a Reality. SLAS Technology, 2017, 22, 231-232.	1.9	6
75	Digital Medicine – The New Frontier for AI in Healthcare. Advanced Therapeutics, 2020, 3, 2000015.	3.2	6
76	Abstract CT268: CURATE.AI-optimized modulation for multiple myeloma: An N-of-1 randomized trial. , 2020, , .		6
77	N-of-1 Healthcare: Challenges and Prospects for the Future of Personalized Medicine. Frontiers in Digital Health, 2022, 4, 830656.	2.8	6
78	Engineering Novel Diagnostic Modalities and Implantable Cytomimetic Nanomaterials for Next-Generation Medicine. Biology of Blood and Marrow Transplantation, 2006, 12, 92-99.	2.0	5
79	Engineering Intelligent Materials for the Interrogation of Bio-robotic Architectures and Regulatory Networks. , 2006, , .		5
80	Synthesis and Characterization of Nanodiamond–Growth Factor Complexes Toward Applications in Oral Implantation and Regenerative Medicine. Journal of Oral Implantology, 2018, 44, 207-211.	1.0	4
81	Understanding the user: Patients’™ perception, needs, and concerns of health apps for chronic constipation. Digital Health, 2022, 8, 205520762211046.	1.8	4
82	Reconstitution of energy converting proteins in biocompatible materials. , 0, , .		3
83	Block Copolymer-Based Biomembranes Functionalized with Energy Transduction Proteins. Materials Research Society Symposia Proceedings, 2004, 823, W11.8.1.	0.1	3
84	The new interface of technology and medicine. IEEE Nanotechnology Magazine, 2008, 2, 9-13.	1.3	3
85	Hybrid protein/polymer biomimetic membranes. , 0, , .		2
86	Meniscus-Assisted Magnetic Bead Trapping on Ewod-Based Digital Microfluidics for Specific Protein Localization. , 2007, , .		2
87	Gold nanoparticle-mediated detection of melamine based on a dual colorimetric and turbidometric readouts. , 2010, , .		2
88	A Digital Peer Support Platform to Translate Web-Based Peer Support for Emerging Adult Mental Well-being: Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 2022, 11, e34602.	1.0	2
89	Nanopolymeric substrates for cyto-regulatory gene program interrogation. , 2007, , .		1
90	Engineering Multifunctional Biologically-Amenable Nanomaterials for Interfacial Therapeutic Delivery and Substrate-Based Cellular Interrogation. , 2007, , .		1

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91	Dynamic Cellular Adhesion Mediated by Copolymeric Nanofilm Substrates. Journal of the Association for Laboratory Automation, 2008, 13, 206-214.	2.8	1
92	Cancer Therapy: Diamond-Lipid Hybrids Enhance Chemotherapeutic Tolerance and Mediate Tumor Regression (Adv. Mater. 26/2013). Advanced Materials, 2013, 25, 3502-3502.	21.0	1
93	WisDM Green: Harnessing Artificial Intelligence to Design and Prioritize Compound Combinations in Peat Moss for Sustainable Farming Applications. Advanced Intelligent Systems, 2022, 4, .	6.1	1
94	Attenuation of Cellular Inflammation Using Glucocorticoid-Functionalized Copolymers. , 2007, , .		0
95	Monolithic 3-D Microfluidic Device for Cell Assay with an Integrated Combinatorial Mixer. , 2007, , .		0
96	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.	0.1	0
97	Functionalized nanodiamonds as efficient transmembrane drug carriers. , 2007, , .		0
98	A Monolithically Fabricated Combinatorial Mixer for Microchip-Based High-Throughput Cell Culturing Assays. , 2007, , .		0
99	Functionalized nanodiamond platforms for applications in systemic and localized drug elution. , 2009, , .		0
100	From the Editor-in-Chief: The JALA Special Issues on Robotics in Laboratory Automation. Journal of the Association for Laboratory Automation, 2012, 17, 323-323.	2.8	0
101	From the Editor-in-Chief: The 2013 JALA Ten: Call for Nominations. Journal of the Association for Laboratory Automation, 2012, 17, 165-165.	2.8	0
102	Introducing the 2013 JALA Ten. Journal of the Association for Laboratory Automation, 2013, 18, 105-110.	2.8	0
103	Introducing the 2014 JALA Ten Honorees. Journal of the Association for Laboratory Automation, 2014, 19, 119-124.	2.8	0
104	Abstract 5818: Globally optimizing therapeutic combinations against bortezomib-resistant multiple myeloma using a quantitative parabolic optimization platform. , 2018, , .		0
105	Tanks and Truth. ACS Nano, 2022, 16, 4975-4976.	14.6	0