

Baran D Sumer

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,792
citations

218677

26
h-index

138484

58
g-index

68
all docs

68
docs citations

68
times ranked

5768
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A nanoparticle-based strategy for the imaging of a broad range of tumours by nonlinear amplification of microenvironment signals. <i>Nature Materials</i> , 2014, 13, 204-212. | 27.5 | 695 |
| 2 | Tunable, Ultrasensitive pH-Responsive Nanoparticles Targeting Specific Endocytic Organelles in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6109-6114. | 13.8 | 488 |
| 3 | Multicolored pH-Tunable and Activatable Fluorescence Nanoplatform Responsive to Physiologic pH Stimuli. <i>Journal of the American Chemical Society</i> , 2012, 134, 7803-7811. | 13.7 | 312 |
| 4 | Ultra-pH-Sensitive Nanoprobe Library with Broad pH Tunability and Fluorescence Emissions. <i>Journal of the American Chemical Society</i> , 2014, 136, 11085-11092. | 13.7 | 241 |
| 5 | Optical molecular imaging for tumor detection and image-guided surgery. <i>Biomaterials</i> , 2018, 157, 62-75. | 11.4 | 178 |
| 6 | A transistor-like pH nanoprobe for tumour detection and image-guided surgery. <i>Nature Biomedical Engineering</i> , 2017, 1, . | 22.5 | 163 |
| 7 | Prolonged activation of innate immune pathways by a polyvalent STING agonist. <i>Nature Biomedical Engineering</i> , 2021, 5, 455-466. | 22.5 | 157 |
| 8 | Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report. <i>Journal of Nuclear Medicine</i> , 2016, 57, 144-150. | 5.0 | 125 |
| 9 | Head and neck oncology during the COVID-19 pandemic: Reconsidering traditional treatment paradigms in light of new surgical and other multilevel risks. <i>Oral Oncology</i> , 2020, 105, 104684. | 1.5 | 104 |
| 10 | Clinical Practice in PET/CT for the Management of Head and Neck Squamous Cell Cancer. <i>American Journal of Roentgenology</i> , 2017, 209, 289-303. | 2.2 | 103 |
| 11 | Molecular basis of cooperativity in pH-triggered supramolecular self-assembly. <i>Nature Communications</i> , 2016, 7, 13214. | 12.8 | 98 |
| 12 | Exploiting metabolic acidosis in solid cancers using a tumor-agnostic pH-activatable nanoprobe for fluorescence-guided surgery. <i>Nature Communications</i> , 2020, 11, 3257. | 12.8 | 97 |
| 13 | Digitization of Endocytic pH by Hybrid Ultra-pH-Sensitive Nanoprobes at Single-Organelle Resolution. <i>Advanced Materials</i> , 2017, 29, 1603794. | 21.0 | 69 |
| 14 | Head and Neck Cancer Detection in Digitized Whole-Slide Histology Using Convolutional Neural Networks. <i>Scientific Reports</i> , 2019, 9, 14043. | 3.3 | 66 |
| 15 | Synergistic STING activation by PC7A nanovaccine and ionizing radiation improves cancer immunotherapy. <i>Journal of Controlled Release</i> , 2019, 300, 154-160. | 9.9 | 61 |
| 16 | Non-covalent interactions in controlling pH-responsive behaviors of self-assembled nanosystems. <i>Polymer Chemistry</i> , 2016, 7, 5949-5956. | 3.9 | 55 |
| 17 | PET imaging of occult tumours by temporal integration of tumour-acidosis signals from pH-sensitive ⁶⁴ Cu-labelled polymers. <i>Nature Biomedical Engineering</i> , 2020, 4, 314-324. | 22.5 | 48 |
| 18 | Tumor-Targeted Inhibition of Monocarboxylate Transporter 1 Improves T-Cell Immunotherapy of Solid Tumors. <i>Advanced Healthcare Materials</i> , 2021, 10, e2000549. | 7.6 | 47 |

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|----|--|------|-----------|
| 19 | NQO1-Mediated Tumor-Selective Lethality and Radiosensitization for Head and Neck Cancer. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 1757-1767. | 4.1 | 46 |
| 20 | Correlation Between Intraoperative Hypothermia and Perioperative Morbidity in Patients With Head and Neck Cancer. <i>JAMA Otolaryngology</i> , 2009, 135, 682. | 1.2 | 39 |
| 21 | Phase 1 Fractional Dose-Escalation Study of Equipotent Stereotactic Radiation Therapy Regimens for Early-Stage Glottic Larynx Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 110-118. | 0.8 | 34 |
| 22 | Nano-Immune-Engineering Approaches to Advance Cancer Immunotherapy: Lessons from Ultra-pH-Sensitive Nanoparticles. <i>Accounts of Chemical Research</i> , 2020, 53, 2546-2557. | 15.6 | 34 |
| 23 | Head and Neck Cancer. <i>Medical Clinics of North America</i> , 2010, 94, 1031-1046. | 2.5 | 33 |
| 24 | In vivo optical imaging of folate receptor α in head and neck squamous cell carcinoma. <i>Laryngoscope</i> , 2014, 124, E312-9. | 2.0 | 28 |
| 25 | Improving patient health engagement with mobile texting: A pilot study in the head and neck postoperative setting. <i>Head and Neck</i> , 2017, 39, 988-995. | 2.0 | 28 |
| 26 | Intraoperative molecular imaging clinical trials: a review of 2020 conference proceedings. <i>Journal of Biomedical Optics</i> , 2021, 26, . | 2.6 | 28 |
| 27 | SBRT for early-stage glottic larynx cancer—Initial clinical outcomes from a phase I clinical trial. <i>PLoS ONE</i> , 2017, 12, e0172055. | 2.5 | 26 |
| 28 | Hyperspectral imaging for head and neck cancer detection: specular glare and variance of the tumor margin in surgical specimens. <i>Journal of Medical Imaging</i> , 2019, 6, 1. | 1.5 | 25 |
| 29 | Blood-based biomarkers of human papillomavirus-associated cancers: A systematic review and meta-analysis. <i>Cancer</i> , 2021, 127, 850-864. | 4.1 | 24 |
| 30 | Targeting NAD ⁺ Metabolism to Enhance Radiation Therapy Responses. <i>Seminars in Radiation Oncology</i> , 2019, 29, 6-15. | 2.2 | 22 |
| 31 | Intratumoral administration of STING-activating nanovaccine enhances T cell immunotherapy. , 2022, 10, e003960. | | 22 |
| 32 | Unique Patterns of Distant Metastases in HPV-Positive Head and Neck Cancer. <i>Oncology</i> , 2020, 98, 179-185. | 1.9 | 20 |
| 33 | Detection of Lymph Node Metastases by Ultra-pH-Sensitive Polymeric Nanoparticles. <i>Theranostics</i> , 2020, 10, 3340-3350. | 10.0 | 19 |
| 34 | Risk of Unplanned Hospital Encounters in Patients Treated With Radiotherapy for Head and Neck Squamous Cell Carcinoma. <i>Journal of Pain and Symptom Management</i> , 2019, 57, 738-745.e3. | 1.2 | 18 |
| 35 | Exploiting nanoscale cooperativity for precision medicine. <i>Advanced Drug Delivery Reviews</i> , 2020, 158, 63-72. | 13.7 | 17 |
| 36 | Association between treatment delays and oncologic outcome in patients treated with surgery and radiotherapy for head and neck cancer. <i>Head and Neck</i> , 2019, 41, 315-321. | 2.0 | 16 |

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|----|---|-----|-----------|
| 37 | Comparative effectiveness of primary radiotherapy versus surgery in elderly patients with locally advanced oropharyngeal squamous cell carcinoma. <i>Oral Oncology</i> , 2019, 88, 18-26. | 1.5 | 13 |
| 38 | COVID-19 Pandemic and Surgical Oncology: Preserving the Academic Mission. <i>Annals of Surgical Oncology</i> , 2020, 27, 2591-2599. | 1.5 | 12 |
| 39 | Effectiveness of physical activity interventions in improving objective and patient-reported outcomes in head and neck cancer survivors: A systematic review. <i>Oral Oncology</i> , 2021, 117, 105253. | 1.5 | 11 |
| 40 | Transoral robotic surgery and transoral laser microsurgery for oropharyngeal squamous cell cancer. <i>Journal of Robotic Surgery</i> , 2013, 7, 377-383. | 1.8 | 8 |
| 41 | Substance use and mental health burden in head and neck and other cancer survivors: A National Health Interview Survey analysis. <i>Cancer</i> , 2022, 128, 112-121. | 4.1 | 8 |
| 42 | Polyvalent design in the cGAS-STING pathway. <i>Seminars in Immunology</i> , 2021, 56, 101580. | 5.6 | 8 |
| 43 | Patterns of Care and Comparative Effectiveness of Intensified Adjuvant Therapy for Resected Oropharyngeal Squamous Cell Carcinoma in the Human Papillomavirus Era. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2016, 142, 777. | 2.2 | 7 |
| 44 | Automatic detection of head and neck squamous cell carcinoma on histologic slides using hyperspectral microscopic imaging. <i>Journal of Biomedical Optics</i> , 2022, 27, . | 2.6 | 7 |
| 45 | En Bloc Resection of the Temporal Bone and Temporomandibular Joint for Advanced Temporal Bone Carcinoma. <i>Otolaryngology - Head and Neck Surgery</i> , 2015, 152, 571-573. | 1.9 | 6 |
| 46 | Risk of contralateral nodal failure following ipsilateral IMRT for node-positive tonsillar cancer. <i>Oral Oncology</i> , 2017, 75, 35-38. | 1.5 | 6 |
| 47 | Phantom-to-clinic development of hypofractionated stereotactic body radiotherapy for early-stage glottic laryngeal cancer. <i>Medical Dosimetry</i> , 2017, 42, 90-96. | 0.9 | 5 |
| 48 | Detection of squamous cell carcinoma in digitized histological images from the head and neck using convolutional neural networks. , 2019, 10956, . | | 4 |
| 49 | Pilot Study of a Wearable Activity Monitor During Head and Neck Radiotherapy to Predict Clinical Outcomes. <i>JCO Clinical Cancer Informatics</i> , 2022, 6, e2100179. | 2.1 | 4 |
| 50 | Model to Predict Cause-Specific Mortality in Patients with Head and Neck Adenoid Cystic Carcinoma: A Competing Risk Analysis. <i>Annals of Surgical Oncology</i> , 2017, 24, 2069-2070. | 1.5 | 2 |
| 51 | Editorial: Cancer Staging in Squamous Cell Carcinoma of the Vermilion Lip. <i>Annals of Surgical Oncology</i> , 2021, 28, 2944-2945. | 1.5 | 2 |
| 52 | Extracapsular extension, pathologic node status, and adjuvant treatment in primary surgery patients with human papillomavirus-mediated oropharyngeal cancer: National hospital-based retrospective cohort analysis. <i>Head and Neck</i> , 2021, 43, 3345-3363. | 2.0 | 2 |
| 53 | The Changing Demographics and Treatment of Larynx Cancer. <i>Annals of Surgical Oncology</i> , 2021, 28, 6927-6928. | 1.5 | 2 |
| 54 | Prognostic impact of matted lymphadenopathy in patients with oropharyngeal squamous cell carcinoma treated with definitive chemoradiotherapy. <i>Oral Oncology</i> , 2021, 123, 105623. | 1.5 | 2 |

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|----|---|-----|-----------|
| 55 | CLINICAL APPLICATIONS OF HEME BIOSYNTHETIC PATHWAY: Photodynamic Therapy with Protoporphyrin IX. , 2011, , 197-209. | | 1 |
| 56 | Factors Associated with Lymph Node Count in Mucosal Squamous Cell Carcinoma Neck Dissection. Laryngoscope, 2021, 131, 1516-1521. | 2.0 | 1 |
| 57 | Institutional patterns of head and neck oncology care during the early phase of the COVID-19 pandemic: A retrospective, pooled cross-sectional analysis. Oral Oncology, 2021, 122, 105564. | 1.5 | 1 |
| 58 | Clinical and Biologic Characteristics and Outcomes in Young and Middle-Aged Patients With Laryngeal Cancer: A Retrospective Cohort Analysis. Otolaryngology - Head and Neck Surgery, 2022, , 019459982110737. | 1.9 | 1 |
| 59 | Adherence to the American Cancer Society Head and Neck Cancer Survivorship Care Guideline According to Chart Review: A Nested Retrospective Cohort Pilot Study. Annals of Otology, Rhinology and Laryngology, 0, , 000348942210984. | 1.1 | 1 |
| 60 | Treatment Deintensification for Human Papillomavirus-Associated Oropharyngeal Cancer. Annals of Surgical Oncology, 2017, 24, 3463-3465. | 1.5 | 0 |
| 61 | In Reply to Mendenhall et al. International Journal of Radiation Oncology Biology Physics, 2020, 106, 221. | 0.8 | 0 |
| 62 | Editorial Comment on "Enhanced Recovery After Surgery (ERAS) in Head and Neck Oncologic Surgery: A Case-Matched Analysis of Perioperative and Pain Outcomes": Annals of Surgical Oncology, 2021, 28, 604-605. | 1.5 | 0 |
| 63 | Using Fluorescent Indicators In Cancer Cells To Advance Image-guided Cancer Surgery. , 2018, , . | | 0 |
| 64 | Survival and disease progression following solitary locoregional recurrence after head and neck radiotherapy. Head and Neck, 2022, 44, 1153-1163. | 2.0 | 0 |