Moritz F Kircher

List of Publications by Year
in descending order

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57 papers	5,158 citations	109321 35 h-index	161849 54 g-index
60 all docs	60 docs citations	60 times ranked	7012 citing authors

#	Article	IF	Citations
1	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. Nature Medicine, 2012, 18, 829-834.	30.7	1,029
2	Noninvasive cell-tracking methods. Nature Reviews Clinical Oncology, 2011, 8, 677-688.	27.6	439
3	In vivo high resolution three-dimensional imaging of antigen-specific cytotoxic T-lymphocyte trafficking to tumors. Cancer Research, 2003, 63, 6838-46.	0.9	307
4	Guiding Brain Tumor Resection Using Surface-Enhanced Raman Scattering Nanoparticles and a Hand-Held Raman Scanner. ACS Nano, 2014, 8, 9755-9766.	14.6	242
5	Surface-enhanced resonance Raman scattering nanostars for high-precision cancer imaging. Science Translational Medicine, 2015, 7, 271ra7.	12.4	236
6	Molecular Body Imaging: MR Imaging, CT, and US. Part I. Principles. Radiology, 2012, 263, 633-643.	7.3	193
7	Molecular imaging for personalized cancer care. Molecular Oncology, 2012, 6, 182-195.	4.6	150
8	Imaging of Liver Tumors Using Surface-Enhanced Raman Scattering Nanoparticles. ACS Nano, 2016, 10, 5015-5026.	14.6	139
9	Frequency, Sensitivity, and Specificity of Individual Signs of Diverticulitis on Thin-Section Helical CT with Colonic Contrast Material: Experience with 312 Cases. American Journal of Roentgenology, 2002, 178, 1313-1318.	2.2	135
10	Cancer imaging using surface-enhanced resonance Raman scattering nanoparticles. Nature Protocols, 2017, 12, 1400-1414.	12.0	121
11	Folate-Targeted Surface-Enhanced Resonance Raman Scattering Nanoprobe Ratiometry for Detection of Microscopic Ovarian Cancer. ACS Nano, 2017, 11, 1488-1497.	14.6	113
12	Rational design of a chalcogenopyrylium-based surface-enhanced resonance Raman scattering nanoprobe with attomolar sensitivity. Nature Communications, 2015, 6, 6570.	12.8	110
13	Silica Nanoparticles as Substrates for Chelator-free Labeling of Oxophilic Radioisotopes. Nano Letters, 2015, 15, 864-868.	9.1	102
14	Integrating Nanotechnology into Cancer Care. ACS Nano, 2019, 13, 7370-7376.	14.6	102
15	High Precision Imaging of Microscopic Spread of Glioblastoma with a Targeted Ultrasensitive SERRS Molecular Imaging Probe. Theranostics, 2016, 6, 1075-1084.	10.0	96
16	Non-invasive In Vivo Imaging of Cancer Using Surface-Enhanced Spatially Offset Raman Spectroscopy (SESORS). Theranostics, 2019, 9, 5899-5913.	10.0	94
17	Performance of a Multispectral Optoacoustic Tomography (MSOT) System equipped with 2D vs. 3D Handheld Probes for Potential Clinical Translation. Photoacoustics, 2016, 4, 1-10.	7.8	90
18	DNA-enabled rational design of fluorescence-Raman bimodal nanoprobes for cancer imaging and therapy. Nature Communications, 2019, 10, 1926.	12.8	86

#	Article	IF	Citations
19	Raman's â€œEffectâ€•on Molecular Imaging. Journal of Nuclear Medicine, 2011, 52, 1839-1844.	5.0	84
20	Spatially offset Raman spectroscopy for biomedical applications. Chemical Society Reviews, 2021, 50, 556-568.	38.1	82
21	Surface-Enhanced Raman Spectroscopy: A New Modality for Cancer Imaging. Journal of Nuclear Medicine, 2015, 56, 1295-1299.	5.0	78
22	Dualâ€Modality Surfaceâ€Enhanced Resonance Raman Scattering and Multispectral Optoacoustic Tomography Nanoparticle Approach for Brain Tumor Delineation. Small, 2018, 14, e1800740.	10.0	78
23	Surfactantâ€Free Shape Control of Gold Nanoparticles Enabled by Unified Theoretical Framework of Nanocrystal Synthesis. Advanced Materials, 2017, 29, 1605622.	21.0	77
24	MUC1 Aptamer Targeted SERS Nanoprobes. Advanced Functional Materials, 2017, 27, 1606632.	14.9	76
25	Gold/alpha-lactalbumin nanoprobes for the imaging and treatment of breast cancer. Nature Biomedical Engineering, 2020, 4, 686-703.	22.5	65
26	Molecular Body Imaging: MR Imaging, CT, and US. Part II. Applications. Radiology, 2012, 264, 349-368.	7.3	61
27	Multiplexed imaging in oncology. Nature Biomedical Engineering, 2022, 6, 527-540.	22.5	53
28	Lymph Node Micrometastases and In-Transit Metastases from Melanoma: In Vivo Detection with Multispectral Optoacoustic Imaging in a Mouse Model. Radiology, 2016, 280, 137-150.	7.3	52
29	Stable Radiolabeling of Sulfur-Functionalized Silica Nanoparticles with Copper-64. Nano Letters, 2016, 16, 5601-5604.	9.1	51
30	Chelator-Free Radiolabeling of SERRS Nanoparticles for Whole-Body PET and Intraoperative Raman Imaging. Theranostics, 2017, 7, 3068-3077.	10.0	49
31	DNA Nanostructures and DNAâ€Functionalized Nanoparticles for Cancer Theranostics. Advanced Science, 2020, 7, 2001669.	11.2	47
32	WST11 Vascular Targeted Photodynamic Therapy Effect Monitoring by Multispectral Optoacoustic Tomography (MSOT) in Mice. Theranostics, 2018, 8, 723-734.	10.0	45
33	Tissue factor-specific ultra-bright SERRS nanostars for Raman detection of pulmonary micrometastases. Nanoscale, 2017, 9, 1110-1119.	5.6	41
34	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scatteringâ€“Nanoparticle Endoscopy. ACS Nano, 2019, 13, 1354-1364.	14.6	40
35	A â€œSchizophotonicâ€•Allâ€Inâ€One Nanoparticle Coating for Multiplexed SE(R)RS Biomedical Imaging. Angewandte Chemie - International Edition, 2014, 53, 11756-11761.	13.8	39
36	Ingestion of magnetic foreign bodies causing multiple bowel perforations. Pediatric Radiology, 2007, 37, 933-936.	2.0	35

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37	Detection of Lymph Node Metastases with SERRS Nanoparticles. Molecular Imaging and Biology, 2016, 18, 677-685.	2.6	33
38	Molecular Imaging in Nanotechnology and Theranostics. Molecular Imaging and Biology, 2017, 19, 363-372.	2.6	32
39	Design and synthesis of gold nanostars-based SERS nanotags for bioimaging applications. Nanotheranostics, 2022, 6, 10-30.	5.2	31
40	Ratio Imaging of Enzyme Activity Using Dual Wavelength Optical Reporters. Molecular Imaging, 2002, 1, 89-95.	1.4	29
41	A correlative optical microscopy and scanning electron microscopy approach to locating nanoparticles in brain tumors. Micron, 2015, 68, 70-76.	2.2	27
42	Multi-center study finds postoperative residual non-enhancing component of glioblastoma as a new determinant of patient outcome. Journal of Neuro-Oncology, 2018, 139, 125-133.	2.9	26
43	Sonophore-enhanced nanoemulsions for optoacoustic imaging of cancer. Chemical Science, 2018, 9, 5646-5657.	7.4	25
44	Acid specific dark quencher QC1 pHLIP for multi-spectral optoacoustic diagnoses of breast cancer. Scientific Reports, 2019, 9, 8550.	3.3	16
45	Magnetic Resonanance Imaging of the Liver (Including Biliary Contrast Agents)â€"Part 2: Protocols for Liver Magnetic Resonanance Imaging and Characterization of Common Focal Liver Lesions. Seminars in Roentgenology, 2016, 51, 317-333.	0.6	14
46	How can we apply the use of surface-enhanced Raman scattering nanoparticles in tumor imaging?. Nanomedicine, 2017, 12, 171-174.	3.3	13
47	Structurally symmetric near-infrared fluorophore IRDye78-protein complex enables multimodal cancer imaging. Theranostics, 2021, 11, 2534-2549.	10.0	11
48	DNA-Functionalized Gold Nanorods for Perioperative Optical Imaging and Photothermal Therapy of Triple-Negative Breast Cancer. ACS Applied Nano Materials, 2022, 5, 9159-9169.	5.0	10
49	Distorted Phthalocyanines by Click Chemistry: Photoacoustic, Photothermal, and Surfaceâ€Enhanced Resonance Raman Studies. Chemistry - A European Journal, 2019, 25, 14517-14521.	3.3	6
50	Surface-enhanced Resonance Raman Scattering Nanoprobe Ratiometry for Detecting Microscopic Ovarian Cancer via Folate Receptor Targeting. Journal of Visualized Experiments, 2019, , .	0.3	6
51	Visualizing surface marker expression and intratumoral heterogeneity with SERRS-NPs imaging. Nanotheranostics, 2022, 6, 256-269.	5.2	6
52	Theranostics: Agents for Diagnosis and Therapy. , 2021, , 655-677.		3
53	Gold Nanoparticles: Surfactantâ€Free Shape Control of Gold Nanoparticles Enabled by Unified Theoretical Framework of Nanocrystal Synthesis (Adv. Mater. 21/2017). Advanced Materials, 2017, 29, .	21.0	2
54	Determination on the Structure of Au Nanorods with Pentagonal Cross-Sections by Various TEM Techniques. Microscopy and Microanalysis, 2014, 20, 868-869.	0.4	0

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55	Frontispiz: A â€œSchizophotonicâ€•All-In-One Nanoparticle Coating for Multiplexed SE(R)RS Biomedical Imaging. Angewandte Chemie, 2014, 126, n/a-n/a.	2.0	0
56	Frontispiece: A â€œSchizophotonicâ€•All-In-One Nanoparticle Coating for Multiplexed SE(R)RS Biomedical Imaging. Angewandte Chemie - International Edition, 2014, 53, n/a-n/a.	13.8	0
57	Ultra-high sensitivity imaging of cancer using SERRS nanoparticles. , 2016, , .		0