Kasper S Kjær

List of Publications by Year in descending order

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118 papers	6,735 citations	47006 47 h-index	78 g-index
120	120	120	10756 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Tracking excited-state charge and spin dynamics in iron coordination complexes. Nature, 2014, 509, 345-348.	27.8	382
2	The negative piezoelectric effect of the ferroelectric polymer poly(vinylidene fluoride). Nature Materials, 2016, 15, 78-84.	27.5	329
3	Mechanisms of drug resistance in colon cancer and its therapeutic strategies. World Journal of Gastroenterology, 2016, 22, 6876.	3.3	289
4	A low-spin Fe(iii) complex with 100-ps ligand-to-metal charge transfer photoluminescence. Nature, 2017, 543, 695-699.	27.8	287
5	Luminescence and reactivity of a charge-transfer excited iron complex with nanosecond lifetime. Science, 2019, 363, 249-253.	12.6	249
6	Iron sensitizer converts light to electrons with 92% yield. Nature Chemistry, 2015, 7, 883-889.	13.6	193
7	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. Nature Methods, 2014, 11, 923-926.	19.0	173
8	Fe ^{II} Hexa <i>N</i> -Heterocyclic Carbene Complex with a 528 ps Metal-to-Ligand Charge-Transfer Excited-State Lifetime. Journal of Physical Chemistry Letters, 2018, 9, 459-463.	4.6	151
9	Coherent structural trapping through wave packet dispersion during photoinduced spin state switching. Nature Communications, 2017, 8, 15342.	12.8	149
10	Cyclooxygenase-2 in tumorigenesis of gastrointestinal cancers: An update on the molecular mechanisms. Cancer Letters, 2010, 295, 7-16.	7.2	138
11	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. Nature Communications, 2015, 6, 6359.	12.8	134
12	A Heteroleptic Ferrous Complex with Mesoionic Bis(1,2,3â€triazolâ€5â€ylidene) Ligands: Taming the MLCT Excited State of Iron(II). Chemistry - A European Journal, 2015, 21, 3628-3639.	3.3	132
13	Guest–Host Interactions Investigated by Time-Resolved X-ray Spectroscopies and Scattering at MHz Rates: Solvation Dynamics and Photoinduced Spin Transition in Aqueous Fe(bipy) ₃ ²⁺ . Journal of Physical Chemistry A, 2012, 116, 9878-9887.	2.5	112
14	Vitamin D3 activates the autolysosomal degradation function against <i>Helicobacter pylori</i> through the PDIA3 receptor in gastric epithelial cells. Autophagy, 2019, 15, 707-725.	9.1	104
15	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. Chemical Science, 2017, 8, 515-523.	7.4	102
16	m1A Regulated Genes Modulate PI3K/AKT/mTOR and ErbB Pathways in Gastrointestinal Cancer. Translational Oncology, 2019, 12, 1323-1333.	3.7	102
17	Inhibition of macroautophagy by bafilomycin A1 lowers proliferation and induces apoptosis in colon cancer cells. Biochemical and Biophysical Research Communications, 2009, 382, 451-456.	2.1	99
18	Combination of shikonin with paclitaxel overcomes multidrug resistance in human ovarian carcinoma cells in a P-gp-independent manner through enhanced ROS generation. Chinese Medicine, 2019, 14, 7.	4.0	92

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19	Peptides as targeting probes against tumor vasculature for diagnosis and drug delivery. Journal of Translational Medicine, 2012, 10, S1.	4.4	91
20	Finding intersections between electronic excited state potential energy surfaces with simultaneous ultrafast X-ray scattering and spectroscopy. Chemical Science, 2019, 10, 5749-5760.	7.4	90
21	Akt-targeted therapy as a promising strategy to overcome drug resistance in breast cancer $\hat{a} \in A$ comprehensive review from chemotherapy to immunotherapy. Pharmacological Research, 2020, 156, 104806.	7.1	88
22	Spin-state studies with XES and RIXS: From static to ultrafast. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 166-171.	1.7	87
23	Proteasome inhibition: A new therapeutic strategy to cancer treatment. Cancer Letters, 2010, 293, 15-22. Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in	7.2	86
24	Solvated <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo stretchy="false">[</mml:mo><mml:mi>Co</mml:mi><mml:mo stretchy="false">[</mml:mo><mml:mi>Co</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mtext) (mathvariant="bold" 0="" 10="" 50="" 532="" etqq0="" overlock="" rgbt="" td="" tf="" tj="">te</mml:mtext)></mml:mrow></mml:math>	rpy <td>:mtext><mm< td=""></mm<></td>	:mtext> <mm< td=""></mm<>
25	Observing Solvation Dynamics with Simultaneous Femtosecond X-ray Emission Spectroscopy and X-ray Scattering. Journal of Physical Chemistry B, 2016, 120, 1158-1168.	2.6	85
26	Repurposing vitamin D for treatment of human malignancies via targeting tumor microenvironment. Acta Pharmaceutica Sinica B, 2019, 9, 203-219.	12.0	85
27	Reversal of P-glycoprotein (P-gp) mediated multidrug resistance in colon cancer cells by cryptotanshinone and dihydrotanshinone of Salvia miltiorrhiza. Phytomedicine, 2014, 21, 1264-1272.	5.3	82
28	Induction of autophagy by proteasome inhibitor is associated with proliferative arrest in colon cancer cells. Biochemical and Biophysical Research Communications, 2008, 374, 258-263.	2.1	79
29	Sensitivity of apoptosis-resistant colon cancer cells to tanshinones is mediated by autophagic cell death and p53-independent cytotoxicity. Phytomedicine, 2015, 22, 536-544.	5.3	79
30	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. Nature Communications, 2020, 11, 634.	12.8	75
31	Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. Nature Communications, 2016, 7, 13678.	12.8	74
32	The host defense peptide LLâ€37 activates the tumorâ€suppressing bone morphogenetic protein signaling via inhibition of proteasome in gastric cancer cells. Journal of Cellular Physiology, 2010, 223, 178-186.	4.1	72
33	Detailed Characterization of a Nanosecond-Lived Excited State: X-ray and Theoretical Investigation of the Quintet State in Photoexcited [Fe(terpy) ₂] ²⁺ . Journal of Physical Chemistry C, 2015, 119, 5888-5902.	3.1	72
34	A novel peptide specifically targeting the vasculature of orthotopic colorectal cancer for imaging detection and drug delivery. Journal of Controlled Release, 2010, 148, 292-302.	9.9	69
35	Ultrafast X-Ray Scattering Measurements of Coherent Structural Dynamics on the Ground-State Potential Energy Surface of a Diplatinum Molecule. Physical Review Letters, 2019, 122, 063001.	7.8	64
36	Introducing a standard method for experimental determination of the solvent response in laser pump, X-ray probe time-resolved wide-angle X-ray scattering experiments on systems in solution. Physical Chemistry Chemical Physics, 2013, 15, 15003-15016.	2.8	62

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37	m ⁶ A RNA modification modulates PI3K/Akt/mTOR signal pathway in Gastrointestinal Cancer. Theranostics, 2020, 10, 9528-9543.	10.0	62
38	Identification of Genetic Mutations in Cancer: Challenge and Opportunity in the New Era of Targeted Therapy. Frontiers in Oncology, 2019, 9, 263.	2.8	62
39	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. Nature Chemistry, 2021, 13, 343-349.	13.6	59
40	Engineered TCR-T Cell Immunotherapy in Anticancer Precision Medicine: Pros and Cons. Frontiers in Immunology, 2021, 12, 658753.	4.8	59
41	Dihydrotanshinone I induced apoptosis and autophagy through caspase dependent pathway in colon cancer. Phytomedicine, 2015, 22, 1079-1087.	5.3	58
42	Molecular scale structure and dynamics at an ionic liquid/electrode interface. Faraday Discussions, 2017, 206, 141-157.	3.2	57
43	2,3′,4,4′,5′â€Pentamethoxyâ€∢i>transà€stilbene, a resveratrol derivative, inhibits colitisâ€associated colorectal carcinogenesis in mice. British Journal of Pharmacology, 2010, 160, 1352-1361.	5.4	54
44	Bond Shortening (1.4 \tilde{A}) in the Singlet and Triplet Excited States of [Ir ₂ (dimen) ₄] ²⁺ in Solution Determined by Time-Resolved X-ray Scattering. Inorganic Chemistry, 2011, 50, 9329-9336.	4.0	53
45	Solvent control of charge transfer excited state relaxation pathways in [Fe(2,2′-bipyridine)(CN) ₄] ^{2â^³} . Physical Chemistry Chemical Physics, 2018, 20, 4238-4249.	2.8	52
46	Protective effects of cathelicidinâ€encoding <i>Lactococcus lactis</i> in murine ulcerative colitis. Journal of Gastroenterology and Hepatology (Australia), 2012, 27, 1205-1212.	2.8	51
47	Identification of Prognostic Genes in the Tumor Microenvironment of Hepatocellular Carcinoma. Frontiers in Immunology, 2021, 12, 653836.	4.8	51
48	Protective Role of $\langle i \rangle \hat{i}^3 \hat{j}' \langle j \rangle$ Cells in Different Pathogen Infections and Its Potential Clinical Application. Journal of Immunology Research, 2018, 2018, 1-15.	2.2	50
49	Toward Highlighting the Ultrafast Electron Transfer Dynamics at the Optically Dark Sites of Photocatalysts. Journal of Physical Chemistry Letters, 2013, 4, 1972-1976.	4.6	49
50	Tracking the picosecond deactivation dynamics of a photoexcited iron carbene complex by time-resolved X-ray scattering. Chemical Science, 2018, 9, 405-414.	7.4	49
51	Activation of 5-lipoxygenase is required for nicotine mediated epithelial–mesenchymal transition and tumor cell growth. Cancer Letters, 2010, 292, 237-245.	7.2	48
52	Carboranes as unique pharmacophores in antitumor medicinal chemistry. Molecular Therapy - Oncolytics, 2022, 24, 400-416.	4.4	48
53	Cryptotanshinone induces ROS-dependent autophagy in multidrug-resistant colon cancer cells. Chemico-Biological Interactions, 2017, 273, 48-55.	4.0	42
54	Macroautophagy and ERK phosphorylation counteract the anti-proliferative effect of proteasome inhibitor in gastric cancer cells. Autophagy, 2010, 6, 228-238.	9.1	41

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55	Ligand manipulation of charge transfer excited state relaxation and spin crossover in [Fe(2,2â \in 2-bipyridine)2(CN)2]. Structural Dynamics, 2017, 4, 044030.	2.3	41
56	Hot Branching Dynamics in a Lightâ€Harvesting Iron Carbene Complex Revealed by Ultrafast Xâ€ray Emission Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 364-372.	13.8	41
57	Characterization of chemical composition and prebiotic effect of a dietary medicinal plant Penthorum chinense Pursh. Food Chemistry, 2020, 319, 126568.	8.2	41
58	Direct Observation of Acoustic Oscillations in InAs Nanowires. Nano Letters, 2010, 10, 2461-2465.	9.1	39
59	Direct Dynamics Studies of a Binuclear Metal Complex in Solution: The Interplay Between Vibrational Relaxation, Coherence, and Solvent Effects. Journal of Physical Chemistry Letters, 2014, 5, 2414-2418.	4.6	39
60	$2,3\hat{a}\in^2,4,4\hat{a}\in^2,5\hat{a}\in^2$ -Pentamethoxy-trans-stilbene, a resveratrol derivative, is a potent inducer of apoptosis in colon cancer cells via targeting microtubules. Biochemical Pharmacology, 2009, 78, 1224-1232.	4.4	37
61	A review of Penthorum chinense Pursh for hepatoprotection: Traditional use, phytochemistry, pharmacology, toxicology and clinical trials. Journal of Ethnopharmacology, 2020, 251, 112569.	4.1	37
62	Neurotransmitters, more than meets the eye $\hat{a}\in$ " Neurotransmitters and their perspectives in cancer development and therapy. European Journal of Pharmacology, 2011, 667, 17-22.	3 . 5	36
63	1,25-Dihydroxyvitamin D 3 suppresses gastric cancer cell growth through VDR- and mutant p53-mediated induction of p21. Life Sciences, 2017, 179, 88-97.	4.3	36
64	Conditional reprogramming: next generation cell culture. Acta Pharmaceutica Sinica B, 2020, 10, 1360-1381.	12.0	34
65	Prostaglandin E ₂ promotes cell proliferation <i>via</i> protein kinase C/extracellular signal regulated kinase pathwayâ€dependent induction of câ€Myc expression in human esophageal squamous cell carcinoma cells. International Journal of Cancer, 2009, 125, 2540-2546.	5.1	33
66	Anisotropy enhanced X-ray scattering from solvated transition metal complexes. Journal of Synchrotron Radiation, 2018, 25, 306-315.	2.4	33
67	Deteriorating Effect on Bone Metabolism and Microstructure by Passive Cigarette Smoking Through Dual Actions on Osteoblast and Osteoclast. Calcified Tissue International, 2015, 96, 389-400.	3.1	32
68	Targets and mechanisms of sulforaphane derivatives obtained from cruciferous plants with special focus on breast cancer $\hat{a} \in \text{contradictory}$ effects and future perspectives. Biomedicine and Pharmacotherapy, 2020, 121, 109635.	5 . 6	29
69	Vascular-targeted TNFα improves tumor blood vessel function and enhances antitumor immunity and chemotherapy in colorectal cancer. Journal of Controlled Release, 2015, 210, 134-146.	9.9	28
70	Natural killer cells as a double-edged sword in cancer immunotherapy: A comprehensive review from cytokine therapy to adoptive cell immunotherapy. Pharmacological Research, 2020, 155, 104691.	7.1	27
71	Long Non-Coding RNAs: Potential Biomarkers and Targets for Hepatocellular Carcinoma Therapy and Diagnosis. International Journal of Biological Sciences, 2021, 17, 220-235.	6.4	27
72	3,3′,4,5,5′-pentahydroxy-trans-stilbene, a resveratrol derivative, induces apoptosis in colorectal carcinoma cells via oxidative stress. European Journal of Pharmacology, 2010, 637, 55-61.	3.5	26

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73	CD4+ T cells in obesity and obesity-associated diseases. Cellular Immunology, 2018, 332, 1-6.	3.0	25
74	The role of Fibrinogen-like proteins in Cancer. International Journal of Biological Sciences, 2021, 17, 1079-1087.	6.4	24
75	Repression of protein translation and mTOR signaling by proteasome inhibitor in colon cancer cells. Biochemical and Biophysical Research Communications, 2009, 386, 598-601.	2.1	23
76	CD44 inhibition attenuates EGFR signaling and enhances cisplatin sensitivity in human EGFR wild‑type non‑small‑cell lung cancer cells. International Journal of Molecular Medicine, 2020, 45, 1783-1792.	4.0	23
77	Disentangling detector data in XFEL studies of temporally resolved solution state chemistry. Faraday Discussions, 2015, 177, 443-465.	3.2	22
78	Effects of tanshinones from Salvia miltiorrhiza on CYP2C19 activity in human liver microsomes: Enzyme kinetic and molecular docking studies. Chemico-Biological Interactions, 2015, 230, 1-8.	4.0	20
79	Chemical control of competing electron transfer pathways in iron tetracyano-polypyridyl photosensitizers. Chemical Science, 2020, 11, 4360-4373.	7.4	20
80	Structure of a short-lived excited state trinuclear Ag–Pt–Pt complex in aqueous solution by time resolved X-ray scattering. Physical Chemistry Chemical Physics, 2010, 12, 6921.	2.8	18
81	Molecular Markers of Regulatory T Cells in Cancer Immunotherapy with Special Focus on Acute Myeloid Leukemia (AML) - A Systematic Review. Current Medicinal Chemistry, 2020, 27, 4673-4698.	2.4	18
82	Vascular-targeted TNF \hat{I} ± and IFN \hat{I} 3 inhibits orthotopic colorectal tumor growth. Journal of Translational Medicine, 2016, 14, 187.	4.4	17
83	The Multifaceted Role of Long Non-Coding RNA in Gastric Cancer: Current Status and Future Perspectives. International Journal of Biological Sciences, 2021, 17, 2737-2755.	6.4	17
84	Short-lived metal-centered excited state initiates iron-methionine photodissociation in ferrous cytochrome c. Nature Communications, 2021, 12, 1086.	12.8	17
85	Excessive Intake of Longan Arillus Alters gut Homeostasis and Aggravates Colitis in Mice. Frontiers in Pharmacology, 2021, 12, 640417.	3.5	17
86	Dye-sensitized solar cells based on Fe N-heterocyclic carbene photosensitizers with improved rod-like push-pull functionality. Chemical Science, 2021, 12, 16035-16053.	7.4	17
87	Electron Transfer and Solvent-Mediated Electronic Localization in Molecular Photocatalysis. Inorganic Chemistry, 2016, 55, 10637-10644.	4.0	16
88	The Roles of Histone Demethylase UTX and JMJD3 (KDM6B) in Cancers: Current Progress and Future Perspectives. Current Medicinal Chemistry, 2016, 23, 3687-3696.	2.4	15
89	Theoretical study of the triplet excited state of PtPOP and the exciplexes M-PtPOP (M=Tl, Ag) in solution and comparison with ultrafast X-ray scattering results. Chemical Physics, 2012, 393, 117-122.	1.9	14
90	Electronic structure and excited state properties of iron carbene photosensitizers – A combined X-ray absorption and quantum chemical investigation. Chemical Physics Letters, 2017, 683, 559-566.	2.6	14

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91	An overview of the multifaceted roles of miRNAs in gastric cancer: Spotlight on novel biomarkers and therapeutic targets. Biochemical Pharmacology, 2019, 163, 425-439.	4.4	14
92	Hot Branching Dynamics in a Lightâ€Harvesting Iron Carbene Complex Revealed by Ultrafast Xâ€ray Emission Spectroscopy. Angewandte Chemie, 2020, 132, 372-380.	2.0	14
93	The distinct roles of exosomes in tumor-stroma crosstalk within gastric tumor microenvironment. Pharmacological Research, 2021, 171, 105785.	7.1	14
94	Chloroform extract of cigarette smoke induces proliferation of human esophageal squamous-cell carcinoma cells: Modulation by \hat{l}^2 -adrenoceptors. Drug and Chemical Toxicology, 2009, 32, 175-181.	2.3	13
95	Probing the Electron Accepting Orbitals of Ni-Centered Hydrogen Evolution Catalysts with Noninnocent Ligands by Ni L-Edge and S K-Edge X-ray Absorption. Inorganic Chemistry, 2018, 57, 13167-13175.	4.0	13
96	Initial metal–metal bond breakage detected by fs X-ray scattering in the photolysis of Ru3(CO)12 in cyclohexane at 400 nm. Photochemical and Photobiological Sciences, 2019, 18, 319-327.	2.9	13
97	Band-selective dynamics in charge-transfer excited iron carbene complexes. Faraday Discussions, 2019, 216, 191-210.	3.2	12
98	Vitamin D suppressed gastric cancer cell growth through downregulating CD44 expression in vitro and in vivo. Nutrition, 2021, 91-92, 111413.	2.4	12
99	Identification of cluster of differentiation molecule-associated microRNAs as potential therapeutic targets for gastrointestinal cancer immunotherapy. International Journal of Biological Markers, 2021, 36, 22-32.	1.8	11
100	The Current Role and Therapeutic Targets of Vitamin D in Gastrointestinal Inflammation and Cancer. Current Pharmaceutical Design, 2015, 21, 2917-2923.	1.9	11
101	Reversal of ABCG2-mediated multidrug resistance by human cathelicidin and its analogs in cancer cells. Peptides, 2013, 40, 13-21.	2.4	10
102	Comprehensive molecular profiling of the B7 family in gastrointestinal cancer. Cell Proliferation, 2018, 51, e12468.	5.3	9
103	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency. Journal of Physical Chemistry Letters, 2022, 13, 378-386.	4.6	9
104	Constitutive hypophosphorylation of extracellular signal-regulated kinases-1/2 and down-regulation of c-Jun in human gastric adenocarcinoma. Biochemical and Biophysical Research Communications, 2008, 373, 330-334.	2.1	8
105	Effects of \hat{l}^2 -Adrenoceptor Antagonists on Portal Vein Hypertension and Ethanol-induced Gastric Mucosal Damage in Rats. Journal of Pharmacy and Pharmacology, 2011, 46, 95-97.	2.4	8
106	The Role of Vitamin D in Gastrointestinal Diseases: Inflammation, Gastric Cancer, and Colorectal Cancer. Current Medicinal Chemistry, 2022, 29, 3836-3856.	2.4	5
107	Effects of Selective \hat{l}^2 -Adrenoceptor Antagonists on Gastric Ulceration in the Rat. Journal of Pharmacy and Pharmacology, 2011, 49, 200-205.	2.4	4
108	A novel vascular-targeting peptide for gastric cancer delivers low-dose TNFα to normalize the blood vessels and improve the anti-cancer efficiency of 5-fluorouracil. Peptides, 2017, 97, 54-63.	2.4	4

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109	Pharmacotranscriptomic profiling of resistant triple-negative breast cancer cells treated with lapatinib and berberine shows upregulation of PI3K/Akt signaling under cytotoxic stress. Gene, 2022, 816, 146171.	2.2	3
110	Excited state kinetics of anthracene-bridge-aniline intramolecular exciplexes. Photochemical and Photobiological Sciences, 2014, 13, 1093.	2.9	2
111	Inside Back Cover: A Heteroleptic Ferrous Complex with Mesoionic Bis(1,2,3â€triazolâ€5â€ylidene) Ligands: Taming the MLCT Excited State of Iron(II) (Chem. Eur. J. 9/2015). Chemistry - A European Journal, 2015, 21, 3831-3831.	3.3	1
112	Editorial: (Thematic Issue): The Pathogenesis of Inflammation and Cancer in the Gastrointestinal Tract: From Basic Science to Translational Medicine. Current Pharmaceutical Design, 2015, 21, 2916-2916.	1.9	1
113	Monitoring Excited State Charge Transfer of Transition Metal Mixed-Valence Complexes with Femtosecond X-ray Absorption and Emission Spectroscopy. , 2016, , .		1
114	Finding Intersections Between Electronic Excited States with Ultrafast X-ray Scattering and Spectroscopy. , 2017, , .		1
115	Perspectives and Clinical Significance of Eicosanoids in the Digestive System., 0,, 405-414.		0
116	Targeted low-dose TNFα delivered by TCP-1 peptide exerts differential synergistic effects on anti-cancer actions of chemotherapeutic drugs. Journal of Drug Delivery Science and Technology, 2018, 44, 475-481.	3.0	0
117	Solvatochromic and Ligand Effects in Ultrafast Intramolecular Electron Transfer in Fe-based Molecular Photosensitizers. EPJ Web of Conferences, 2019, 205, 09029.	0.3	0
118	The Human Host Defense Peptide LLâ€37 Induces Caspaseindependent Apoptosis Via Apoptosisâ€Inducing Factor And Endonuclease G in Colon Cancer Cells. FASEB Journal, 2012, 26, 852.8.	0.5	0