

Efrosini Kokkoli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77 papers	4,331 citations	32 h-index	65 g-index
83 ext. papers	4,602 ext. citations	6.9 avg, IF	5.34 L-index

#	Paper	IF	Citations
77	A Localized Enantioselective Catalytic Site on Short DNA Sequences and Their Amphiphiles.. <i>Jacs Au</i> , 2022 , 2, 483-491		0
76	ssDNA nanotubes for selective targeting of glioblastoma and delivery of doxorubicin for enhanced survival. <i>Science Advances</i> , 2021 , 7, eabl5872	14.3	2
75	Thermosensitive and biodegradable hydrogel encapsulating targeted nanoparticles for the sustained co-delivery of gemcitabine and paclitaxel to pancreatic cancer cells. <i>International Journal of Pharmaceutics</i> , 2021 , 593, 120139	6.5	9
74	Effect of an alkyl spacer on the morphology and internalization of MUC1 aptamer-naphthalimide amphiphiles for targeting and imaging triple negative breast cancer cells. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10194	14.8	2
73	Targeted Liposomes Encapsulating miR-603 Complexes Enhance Radiation Sensitivity of Patient-Derived Glioblastoma Stem-Like Cells. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
72	Radiation-induced extracellular vesicle (EV) release of miR-603 promotes IGF1-mediated stem cell state in glioblastomas. <i>EBioMedicine</i> , 2020 , 55, 102736	8.8	19
71	ssDNA-amphiphile architecture used to control dimensions of DNA nanotubes. <i>Nanoscale</i> , 2019 , 11, 19850-19861	5.7	19851
70	Design of an Aptamer-Amphiphile for the Detection of β -Lactoglobulin on a Liquid Crystal Interface. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2763-2770	6.3	12
69	Aptamer micelles targeting fractalkine-expressing cancer cells in vitro and in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 85-96	6	12
68	Dual-ligand $\alpha_5\beta_1$ Integrin targeting enhances gene delivery and selectivity to cancer cells. <i>Journal of Controlled Release</i> , 2017 , 251, 24-36	11.7	19
67	Design and Characterization of a PVLA-PEG-PVLA Thermosensitive and Biodegradable Hydrogel. <i>ACS Macro Letters</i> , 2017 , 6, 1134-1139	6.6	16
66	Salt Responsive Morphologies of ssDNA-Based Triblock Polyelectrolytes in Semi-Dilute Regime: Effect of Volume Fractions and Polyelectrolyte Length. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700422	4.8	10
65	The design of peptide-amphiphiles as functional ligands for liposomal anticancer drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2017 , 110-111, 80-101	18.5	38
64	Rapid Induction of Cerebral Organoids From Human Induced Pluripotent Stem Cells Using a Chemically Defined Hydrogel and Defined Cell Culture Medium. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 970-9	6.9	76
63	Targeting HPV-infected cervical cancer cells with PEGylated liposomes encapsulating siRNA and the role of siRNA complexation with polyethylenimine. <i>Bioengineering and Translational Medicine</i> , 2016 , 1, 168-180	14.8	7
62	Design Principles for Peptide-Amphiphile-Induced Liposomal Receptor-Targeting with Intracellular Thermosensitivity. <i>ChemNanoMat</i> , 2016 , 2, 42-48	3.5	4
61	A chitosan-hyaluronan-based hydrogel-hydrocolloid supports in vitro culture and differentiation of human mesenchymal stem/stromal cells. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1952-62	3.9	29

60	DNA nanotubes and helical nanotapes via self-assembly of ssDNA-amphiphiles. <i>Soft Matter</i> , 2015 , 11, 109-17	3.6	23
59	Three-Dimensional Cell Entrapment as a Function of the Weight Percent of Peptide-Amphiphile Hydrogels. <i>Langmuir</i> , 2015 , 31, 6122-9	4	12
58	The role of spacers on the self-assembly of DNA aptamer-amphiphiles into micelles and nanotapes. <i>Chemical Communications</i> , 2014 , 50, 210-2	5.8	28
57	Increasing cancer-specific gene expression by targeting overexpressed β_1 integrin and upregulated transcriptional activity of NF- κ B. <i>Molecular Pharmaceutics</i> , 2014 , 11, 849-58	5.6	8
56	Transfection mechanisms of polyplexes, lipoplexes, and stealth liposomes in β_1 integrin bearing DLD-1 colorectal cancer cells. <i>Langmuir</i> , 2014 , 30, 3802-10	4	22
55	Effect of polyethylene glycol, alkyl, and oligonucleotide spacers on the binding, secondary structure, and self-assembly of fractalkine binding FKN-S2 aptamer-amphiphiles. <i>Langmuir</i> , 2014 , 30, 7465-74	4	24
54	Maintenance of ischemic cell viability through delivery of lipids and ATP by targeted liposomes. <i>Biomaterials Science</i> , 2014 , 2, 548-559	7.4	13
53	Divergent Mechanistic Avenues to an Aliphatic Polyesteracetal or Polyester from a Single Cyclic Esteracetal. <i>ACS Macro Letters</i> , 2014 , 3, 1156-1160	6.6	25
52	Preparation and characterization of liposome-encapsulated plasmid DNA for gene delivery. <i>Langmuir</i> , 2013 , 29, 9208-15	4	37
51	Peptide functionalized nanoparticles for nonviral gene delivery. <i>Soft Matter</i> , 2013 , 9, 985-1004	3.6	63
50	Bioresorbable polymersomes for targeted delivery of cisplatin. <i>Bioconjugate Chemistry</i> , 2013 , 24, 533-436.3	3.6	26
49	PR β functionalized stealth liposomes for targeted delivery to metastatic colon cancer. <i>Biomaterials Science</i> , 2013 , 1, 393-401	7.4	16
48	Polymersomes functionalized via click chemistry with the fibronectin mimetic peptides PR β and GRGDSP for targeted delivery to cells with different levels of β_1 expression. <i>Soft Matter</i> , 2012 , 8, 4449	3.6	35
47	Recommendations for nanomedicine human subjects research oversight: an evolutionary approach for an emerging field. <i>Journal of Law, Medicine and Ethics</i> , 2012 , 40, 716-50	1.2	20
46	Development and characterization of an aptamer binding ligand of fractalkine using domain targeted SELEX. <i>Chemical Communications</i> , 2012 , 48, 10043-5	5.8	25
45	Enhanced integrin mediated signaling and cell cycle progression on fibronectin mimetic peptide amphiphile monolayers. <i>Langmuir</i> , 2012 , 28, 1858-65	4	29
44	Targeted polymersome delivery of siRNA induces cell death of breast cancer cells dependent upon Orai3 protein expression. <i>Langmuir</i> , 2012 , 28, 12816-30	4	68
43	PEGylated liposomal doxorubicin targeted to β_1 -expressing MDA-MB-231 breast cancer cells. <i>Langmuir</i> , 2012 , 28, 4729-36	4	63

42	Peptide targeted lipid nanoparticles for anticancer drug delivery. <i>Advanced Materials</i> , 2012 , 24, 3803-22, 3710	24	145
41	Lipid Nanoparticles: Peptide Targeted Lipid Nanoparticles for Anticancer Drug Delivery (Adv. Mater. 28/2012). <i>Advanced Materials</i> , 2012 , 24, 3710-3710	24	4
40	Recommendations for oversight of nanobiotechnology: dynamic oversight for complex and convergent technology. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1345-1371	2.3	28
39	Silica-Nanoparticle Coatings by Adsorption from LysineSilica-Nanoparticle Sols on Inorganic and Biological Surfaces. <i>Angewandte Chemie</i> , 2011 , 123, 1655-1659	3.6	4
38	Silica-nanoparticle coatings by adsorption from lysine-silica-nanoparticle Sols on inorganic and biological surfaces. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1617-21	16.4	25
37	pH-Sensitive PEGylated liposomes functionalized with a fibronectin-mimetic peptide show enhanced intracellular delivery to colon cancer cell. <i>Current Pharmaceutical Biotechnology</i> , 2011 , 12, 1135-43	2.6	47
36	Synthesis and characterization of reactive PEOBMCL polymersomes. <i>Polymer Chemistry</i> , 2010 , 1, 1281	4.9	47
35	Self-assembly of fibronectin mimetic peptide-amphiphile nanofibers. <i>Langmuir</i> , 2010 , 26, 1953-9	4	71
34	Binding of the fibronectin-mimetic peptide, PR_b, to alpha5beta1 on pig islet cells increases fibronectin production and facilitates internalization of PR_b functionalized liposomes. <i>Langmuir</i> , 2010 , 26, 14081-8	4	22
33	Fibronectin-mimetic peptide-amphiphile nanofiber gels support increased cell adhesion and promote ECM production. <i>Soft Matter</i> , 2010 , 6, 5064	3.6	32
32	Peptide- and aptamer-functionalized nanovectors for targeted delivery of therapeutics. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 074005	2.1	55
31	Introduction: The challenge of developing oversight approaches to nanobiotechnology. <i>Journal of Law, Medicine and Ethics</i> , 2009 , 37, 543-5	1.2	6
30	Evaluating oversight of human drugs and medical devices: a case study of the FDA and implications for nanobiotechnology. <i>Journal of Law, Medicine and Ethics</i> , 2009 , 37, 598-624	1.2	9
29	Developing U.S. oversight strategies for nanobiotechnology: learning from past oversight experiences. <i>Journal of Law, Medicine and Ethics</i> , 2009 , 37, 688-705	1.2	15
28	Targeting colon cancer cells using PEGylated liposomes modified with a fibronectin-mimetic peptide. <i>International Journal of Pharmaceutics</i> , 2009 , 366, 201-10	6.5	131
27	Benign, 3D encapsulation of sensitive mammalian cells in porous silica gels formed by LysSil nanoparticle assembly. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 387-395	5.3	12
26	PR_b-targeted delivery of tumor necrosis factor- α by polymersomes for the treatment of prostate cancer. <i>Soft Matter</i> , 2009 , 5, 2011	3.6	67
25	PR_b-targeted PEGylated liposomes for prostate cancer therapy. <i>Langmuir</i> , 2008 , 24, 13518-24	4	49

24	Effect of linker and spacer on the design of a fibronectin-mimetic peptide evaluated via cell studies and AFM adhesion forces. <i>Langmuir</i> , 2008 , 24, 10282-92	4	49
23	Exploring emerging nanobiotechnology drugs and medical devices. <i>Food and Drug Law Journal</i> , 2008 , 63, 407-20		6
22	Effect of RGD secondary structure and the synergy site PHSRN on cell adhesion, spreading and specific integrin engagement. <i>Biomaterials</i> , 2006 , 27, 3863-74	15.6	112
21	Design of a novel fibronectin-mimetic peptide-amphiphile for functionalized biomaterials. <i>Langmuir</i> , 2006 , 22, 3259-64	4	100
20	Self-assembly and applications of biomimetic and bioactive peptide-amphiphiles. <i>Soft Matter</i> , 2006 , 2, 1015-1024	3.6	157
19	Mechanistic principles of nanoparticle evolution to zeolite crystals. <i>Nature Materials</i> , 2006 , 5, 400-8	27	382
18	Patterned biomimetic membranes: effect of concentration and pH. <i>Langmuir</i> , 2005 , 21, 7468-75	4	25
17	Fractalkine targeting with a receptor-mimicking peptide-amphiphile. <i>Biomacromolecules</i> , 2005 , 6, 1272-96.9		11
16	The Use of Atomic Force Microscopy in Characterizing Ligand-Receptor ($\alpha 5 \beta 1$ Integrin) Interactions. <i>ACS Symposium Series</i> , 2005 , 182-192	0.4	
15	Characterizing particulate drug-delivery carriers with atomic force microscopy. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2005 , 24, 87-95		11
14	Surface Structure of Zeolite (MFI) Crystals. <i>Chemistry of Materials</i> , 2004 , 16, 5226-5232	9.6	79
13	On the TEM and AFM evidence of zeosil nanoslabs present during the synthesis of silicalite-1. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4558-61; author reply 4562-4	16.4	49
12	Biomimetic peptide-amphiphiles for functional biomaterials: the role of GRGDSP and PHSRN. <i>Biomacromolecules</i> , 2004 , 5, 950-7	6.9	70
11	Collective and single-molecule interactions of $\alpha 5 \beta 1$ integrins. <i>Langmuir</i> , 2004 , 20, 2397-404	4	66
10	Microstructural optimization of a zeolite membrane for organic vapor separation. <i>Science</i> , 2003 , 300, 456-60	33.3	863
9	Analysis of matrix dynamics by atomic force microscopy. <i>Methods in Cell Biology</i> , 2002 , 69, 163-93	1.8	4
8	The role of surface science in bioengineered materials. <i>Surface Science</i> , 2002 , 500, 61-83	1.8	379
7	Surface Pattern Recognition by a Colloidal Particle. <i>Langmuir</i> , 2001 , 17, 369-376	4	48

6	Interaction Forces between Hydrophobic and Hydrophilic Self-Assembled Monolayers. <i>Journal of Colloid and Interface Science</i> , 2000 , 230, 176-180	9.3	43
5	Surface Forces between Hydrophilic Self-Assembled Monolayers in Aqueous Electrolytes. <i>Langmuir</i> , 2000 , 16, 6029-6036	4	3 ²
4	Zeolite Growth by Addition of Subcolloidal Particles: Modeling and Experimental Validation. <i>Chemistry of Materials</i> , 2000 , 12, 845-853	9.6	17 ¹
3	Effect of Solvents on Interactions between Hydrophobic Self-Assembled Monolayers. <i>Journal of Colloid and Interface Science</i> , 1999 , 209, 60-65	9.3	4 ⁸
2	Interactions between Hydrophobic Self-Assembled Monolayers. Effect of Salt and the Chemical Potential of Water on Adhesion. <i>Langmuir</i> , 1998 , 14, 1189-1195	4	54
1	Swelling of colloidal systems. <i>Journal of Chemical Physics</i> , 1998 , 108, 4675-4682	3.9	4