Efrosini Kokkoli

List of Publications by Citations

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	Microstructural optimization of a zeolite membrane for organic vapor separation. *Science*, **2003**, 300, 456-60	33.3	863
76	Mechanistic principles of nanoparticle evolution to zeolite crystals. *Nature Materials*, **2006**, 5, 400-8	27	382
75	The role of surface science in bioengineered materials. *Surface Science*, **2002**, 500, 61-83	1.8	379
74	Zeolite Growth by Addition of Subcolloidal Particles: Modeling and Experimental Validation. *Chemistry of Materials*, **2000**, 12, 845-853	9.6	171
73	Self-assembly and applications of biomimetic and bioactive peptide-amphiphiles. *Soft Matter*, **2006**, 2, 1015-1024	3.6	157
72	Peptide targeted lipid nanoparticles for anticancer drug delivery. *Advanced Materials*, **2012**, 24, 3803-22, 3710	24	145
71	Targeting colon cancer cells using PEGylated liposomes modified with a fibronectin-mimetic peptide. *International Journal of Pharmaceutics*, **2009**, 366, 201-10	6.5	131
70	Effect of RGD secondary structure and the synergy site PHSRN on cell adhesion, spreading and specific integrin engagement. *Biomaterials*, **2006**, 27, 3863-74	15.6	112
69	Design of a novel fibronectin-mimetic peptide-amphiphile for functionalized biomaterials. *Langmuir* , **2006**, 22, 3259-64	4	100
68	Surface Structure of Zeolite (MFI) Crystals. *Chemistry of Materials*, **2004**, 16, 5226-5232	9.6	79
67	Rapid Induction of Cerebral Organoids From Human Induced Pluripotent Stem Cells Using a Chemically Defined Hydrogel and Defined Cell Culture Medium. *Stem Cells Translational Medicine*, **2016**, 5, 970-9	6.9	76
66	Self-assembly of fibronectin mimetic peptide-amphiphile nanofibers. *Langmuir*, **2010**, 26, 1953-9	4	71
65	Biomimetic peptide-amphiphiles for functional biomaterials: the role of GRGDSP and PHSRN. *Biomacromolecules*, **2004**, 5, 950-7	6.9	70
64	Targeted polymersome delivery of siRNA induces cell death of breast cancer cells dependent upon Orai3 protein expression. *Langmuir*, **2012**, 28, 12816-30	4	68
63	PR_b-targeted delivery of tumor necrosis factor-by polymersomes for the treatment of prostate cancer. *Soft Matter*, **2009**, 5, 2011	3.6	67
62	Collective and single-molecule interactions of alpha5beta1 integrins. *Langmuir*, **2004**, 20, 2397-404	4	66
61	Peptide functionalized nanoparticles for nonviral gene delivery. *Soft Matter*, **2013**, 9, 985-1004	3.6	63

60	PEGylated liposomal doxorubicin targeted to 51-expressing MDA-MB-231 breast cancer cells. *Langmuir*, **2012**, 28, 4729-36	4	63
59	Peptide- and aptamer-functionalized nanovectors for targeted delivery of therapeutics. *Journal of Biomechanical Engineering*, **2009**, 131, 074005	2.1	55
58	Interactions between Hydrophobic Self-Assembled Monolayers. Effect of Salt and the Chemical Potential of Water on Adhesion. *Langmuir*, **1998**, 14, 1189-1195	4	54
57	PR_b-targeted PEGylated liposomes for prostate cancer therapy. *Langmuir*, **2008**, 24, 13518-24	4	49
56	Effect of linker and spacer on the design of a fibronectin-mimetic peptide evaluated via cell studies and AFM adhesion forces. *Langmuir*, **2008**, 24, 10282-92	4	49
55	On the TEM and AFM evidence of zeosil nanoslabs present during the synthesis of silicalite-1. *Angewandte Chemie - International Edition*, **2004**, 43, 4558-61; author reply 4562-4	16.4	49
54	Surface Pattern Recognition by a Colloidal Particle. *Langmuir*, **2001**, 17, 369-376	4	48
53	Effect of Solvents on Interactions between Hydrophobic Self-Assembled Monolayers. *Journal of Colloid and Interface Science*, **1999**, 209, 60-65	9.3	48
52	Synthesis and characterization of reactive PEOPMCL polymersomes. *Polymer Chemistry*, **2010**, 1, 1281	4.9	47
51	pH-Sensitive PEGylated liposomes functionalized with a fibronectin-mimetic peptide show enhanced intracellular delivery to colon cancer cell. *Current Pharmaceutical Biotechnology*, **2011**, 12, 1135-43	2.6	47
50	Interaction Forces between Hydrophobic and Hydrophilic Self-Assembled Monolayers. *Journal of Colloid and Interface Science*, **2000**, 230, 176-180	9.3	43
49	The design of peptide-amphiphiles as functional ligands for liposomal anticancer drug and gene delivery. *Advanced Drug Delivery Reviews*, **2017**, 110-111, 80-101	18.5	38
48	Preparation and characterization of liposome-encapsulated plasmid DNA for gene delivery. *Langmuir*, **2013**, 29, 9208-15	4	37
47	Polymersomes functionalized via click chemistry with the fibronectin mimetic peptides PR_b and GRGDSP for targeted delivery to cells with different levels of 51 expression. *Soft Matter*, **2012**, 8, 4449	3.6	35
46	Fibronectin-mimetic peptide-amphiphile nanofiber gels support increased cell adhesion and promote ECM production. *Soft Matter*, **2010**, 6, 5064	3.6	32
45	Surface Forces between Hydrophilic Self-Assembled Monolayers in Aqueous Electrolytes. *Langmuir*, **2000**, 16, 6029-6036	4	32
44	A chitosan-hyaluronan-based hydrogel-hydrocolloid supports in vitro culture and differentiation of human mesenchymal stem/stromal cells. *Tissue Engineering - Part A*, **2015**, 21, 1952-62	3.9	29
43	Enhanced integrin mediated signaling and cell cycle progression on fibronectin mimetic peptide amphiphile monolayers. *Langmuir*, **2012**, 28, 1858-65	4	29

42	The role of spacers on the self-assembly of DNA aptamer-amphiphiles into micelles and nanotapes. *Chemical Communications*, **2014**, 50, 210-2	5.8	28
41	Recommendations for oversight of nanobiotechnology: dynamic oversight for complex and convergent technology. *Journal of Nanoparticle Research*, **2011**, 13, 1345-1371	2.3	28
40	Bioresorbable polymersomes for targeted delivery of cisplatin. *Bioconjugate Chemistry*, **2013**, 24, 533-43	6.3	26
39	Divergent Mechanistic Avenues to an Aliphatic Polyesteracetal or Polyester from a Single Cyclic Esteracetal. *ACS Macro Letters*, **2014**, 3, 1156-1160	6.6	25
38	Development and characterization of an aptamer binding ligand of fractalkine using domain targeted SELEX. *Chemical Communications*, **2012**, 48, 10043-5	5.8	25
37	Silica-nanoparticle coatings by adsorption from lysine-silica-nanoparticle Sols on inorganic and biological surfaces. *Angewandte Chemie - International Edition*, **2011**, 50, 1617-21	16.4	25
36	Patterned biomimetic membranes: effect of concentration and pH. *Langmuir*, **2005**, 21, 7468-75	4	25
35	Effect of polyethylene glycol, alkyl, and oligonucleotide spacers on the binding, secondary structure, and self-assembly of fractalkine binding FKN-S2 aptamer-amphiphiles. *Langmuir*, **2014**, 30, 7465-74	4	24
34	DNA nanotubes and helical nanotapes via self-assembly of ssDNA-amphiphiles. *Soft Matter*, **2015**, 11, 109-17	3.6	23
33	Transfection mechanisms of polyplexes, lipoplexes, and stealth liposomes in β1integrin bearing DLD-1 colorectal cancer cells. *Langmuir*, **2014**, 30, 3802-10	4	22
32	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. *Langmuir*, **2010**, 26, 14081-8	4	22
31	Recommendations for nanomedicine human subjects research oversight: an evolutionary approach for an emerging field. *Journal of Law, Medicine and Ethics*, **2012**, 40, 716-50	1.2	20
30	Dual-ligand α5β1 and β1integrin targeting enhances gene delivery and selectivity to cancer cells. *Journal of Controlled Release*, **2017**, 251, 24-36	11.7	19
29	Radiation-induced extracellular vesicle (EV) release of miR-603 promotes IGF1-mediated stem cell state in glioblastomas. *EBioMedicine*, **2020**, 55, 102736	8.8	19
28	Design and Characterization of a PVLA-PEG-PVLA Thermosensitive and Biodegradable Hydrogel. *ACS Macro Letters*, **2017**, 6, 1134-1139	6.6	16
27	PR_b functionalized stealth liposomes for targeted delivery to metastatic colon cancer. *Biomaterials Science*, **2013**, 1, 393-401	7.4	16
26	Developing U.S. oversight strategies for nanobiotechnology: learning from past oversight experiences. *Journal of Law, Medicine and Ethics*, **2009**, 37, 688-705	1.2	15
25	Maintenance of ischemic β cell viability through delivery of lipids and ATP by targeted liposomes. *Biomaterials Science*, **2014**, 2, 548-559	7.4	13

24	Aptamer micelles targeting fractalkine-expressing cancer cells in vitro and in vivo. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 85-96	6	12
23	Design of an Aptamer-Amphiphile for the Detection of β-Lactoglobulin on a Liquid Crystal Interface. *Bioconjugate Chemistry*, **2019**, 30, 2763-2770	6.3	12
22	Three-Dimensional Cell Entrapment as a Function of the Weight Percent of Peptide-Amphiphile Hydrogels. *Langmuir*, **2015**, 31, 6122-9	4	12
21	Benign, 3D encapsulation of sensitive mammalian cells in porous silica gels formed by Lys-Sil nanoparticle assembly. *Microporous and Mesoporous Materials*, **2009**, 118, 387-395	5.3	12
20	Fractalkine targeting with a receptor-mimicking peptide-amphiphile. *Biomacromolecules*, **2005**, 6, 1272-9	6.9	11
19	Characterizing particulate drug-delivery carriers with atomic force microscopy. *IEEE Engineering in Medicine and Biology Magazine*, **2005**, 24, 87-95		11
18	Salt Responsive Morphologies of ssDNA-Based Triblock Polyelectrolytes in Semi-Dilute Regime: Effect of Volume Fractions and Polyelectrolyte Length. *Macromolecular Rapid Communications*, **2017**, 38, 1700422	4.8	10
17	Evaluating oversight of human drugs and medical devices: a case study of the FDA and implications for nanobiotechnology. *Journal of Law, Medicine and Ethics*, **2009**, 37, 598-624	1.2	9
16	Thermosensitive and biodegradable hydrogel encapsulating targeted nanoparticles for the sustained co-delivery of gemcitabine and paclitaxel to pancreatic cancer cells. *International Journal of Pharmaceutics*, **2021**, 593, 120139	6.5	9
15	Increasing cancer-specific gene expression by targeting overexpressed α5β1 integrin and upregulated transcriptional activity of NF-κB. *Molecular Pharmaceutics*, **2014**, 11, 849-58	5.6	8
14	Targeting HPV-infected cervical cancer cells with PEGylated liposomes encapsulating siRNA and the role of siRNA complexation with polyethylenimine. *Bioengineering and Translational Medicine*, **2016**, 1, 168-180	14.8	7
13	Introduction: The challenge of developing oversight approaches to nanobiotechnology. *Journal of Law, Medicine and Ethics*, **2009**, 37, 543-5	1.2	6
12	Exploring emerging nanobiotechnology drugs and medical devices. *Food and Drug Law Journal*, **2008**, 63, 407-20		6
11	ssDNA-amphiphile architecture used to control dimensions of DNA nanotubes. *Nanoscale*, **2019**, 11, 19850-19861	7.7	5
10	Lipid Nanoparticles: Peptide Targeted Lipid Nanoparticles for Anticancer Drug Delivery (Adv. Mater. 28/2012). *Advanced Materials*, **2012**, 24, 3710-3710	24	4
9	Silica-Nanoparticle Coatings by Adsorption from Lysine-Silica-Nanoparticle Sols on Inorganic and Biological Surfaces. *Angewandte Chemie*, **2011**, 123, 1655-1659	3.6	4
8	Analysis of matrix dynamics by atomic force microscopy. *Methods in Cell Biology*, **2002**, 69, 163-93	1.8	4
7	Swelling of colloidal systems. *Journal of Chemical Physics*, **1998**, 108, 4675-4682	3.9	4

6	Design Principles for Peptide-Amphiphile-Induced Liposomal Receptor-Targeting with Intracellular Thermosensitivity. *ChemNanoMat*, **2016**, 2, 42-48	3.5	4
5	ssDNA nanotubes for selective targeting of glioblastoma and delivery of doxorubicin for enhanced survival. *Science Advances*, **2021**, 7, eabl5872	14.3	2
4	Effect of an alkyl spacer on the morphology and internalization of MUC1 aptamer-naphthalimide amphiphiles for targeting and imaging triple negative breast cancer cells. *Bioengineering and Translational Medicine*, **2021**, 6, e10194	14.8	2
3	Targeted Liposomes Encapsulating miR-603 Complexes Enhance Radiation Sensitivity of Patient-Derived Glioblastoma Stem-Like Cells. *Pharmaceutics*, **2021**, 13,	6.4	2
2	A Localized Enantioselective Catalytic Site on Short DNA Sequences and Their Amphiphiles.. *Jacs Au* , **2022**, 2, 483-491		0
1	The Use of Atomic Force Microscopy in Characterizing Ligand-Receptor (α5β1 Integrin) Interactions. *ACS Symposium Series*, **2005**, 182-192	0.4	