

Prashanth Siddhamshetty

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

568
citations

623734

14
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

315
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing total fracture surface area in naturally fractured unconventional reservoirs via model predictive control. Journal of Petroleum Science and Engineering, 2020, 184, 106525.	4.2	11
2	Evaluating the spatiotemporal variability of water recovery ratios of shale gas wells and their effects on shale gas development. Journal of Cleaner Production, 2020, 276, 123171.	9.3	20
3	Impact of Proppant Pumping Schedule on Well Production for Slickwater Fracturing. , 2020, , .		1
4	Design of online pumping schedules in naturally fractured shale formations to enhance total fracture surface area. , 2020, , .		0
5	Numerical study of the effect of propped surface area and fracture conductivity on shale gas production: Application for multi-size proppant pumping schedule design. Journal of Natural Gas Science and Engineering, 2020, 79, 103349.	4.4	11
6	Multi-Size Proppant Pumping Schedule of Hydraulic Fracturing: Application to a MP-PIC Model of Unconventional Reservoir for Enhanced Gas Production. Processes, 2020, 8, 570.	2.8	20
7	Modeling and Control of Proppant Distribution of Multistage Hydraulic Fracturing in Horizontal Shale Wells. Industrial & Engineering Chemistry Research, 2019, 58, 3159-3169.	3.7	39
8	Economic Model-Based Controller Design Framework for Hydraulic Fracturing To Optimize Shale Gas Production and Water Usage. Industrial & Engineering Chemistry Research, 2019, 58, 12097-12115.	3.7	17
9	Simultaneous measurement uncertainty reduction and proppant bank height control of hydraulic fracturing. Computers and Chemical Engineering, 2019, 127, 272-281.	3.8	9
10	Optimal design of shale gas supply chain network considering MPC-based pumping schedule of hydraulic fracturing in unconventional reservoirs. Chemical Engineering Research and Design, 2019, 147, 412-429.	5.6	10
11	Enlarging the Domain of Attraction of the Local Dynamic Mode Decomposition with Control Technique: Application to Hydraulic Fracturing. Industrial & Engineering Chemistry Research, 2019, 58, 5588-5601.	3.7	18
12	Model-based feedback control of oil production in oil-rim reservoirs under gas coning conditions. Computers and Chemical Engineering, 2018, 112, 112-120.	3.8	17
13	Handling Spatial Heterogeneity in Reservoir Parameters Using Proper Orthogonal Decomposition Based Ensemble Kalman Filter for Model-Based Feedback Control of Hydraulic Fracturing. Industrial & Engineering Chemistry Research, 2018, 57, 3977-3989.	3.7	56
14	Model order reduction of nonlinear parabolic PDE systems with moving boundaries using sparse proper orthogonal decomposition: Application to hydraulic fracturing. Computers and Chemical Engineering, 2018, 112, 92-100.	3.8	49
15	Modeling of hydraulic fracturing and designing of online pumping schedules to achieve uniform proppant concentration in conventional oil reservoirs. Computers and Chemical Engineering, 2018, 114, 306-317.	3.8	49
16	Feedback control of proppant bank heights during hydraulic fracturing for enhanced productivity in shale formations. AIChE Journal, 2018, 64, 1638-1650.	3.6	35
17	Incorporation of sustainability in process control of hydraulic fracturing in unconventional reservoirs. Chemical Engineering Research and Design, 2018, 139, 62-76.	5.6	10
18	Approximate Dynamic Programming Based Control of Proppant Concentration in Hydraulic Fracturing. Mathematics, 2018, 6, 132.	2.2	33

#	ARTICLE	IF	CITATIONS
19	Feedback control of proppant bank heights during hydraulic fracturing for enhanced productivity in shale formations. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 703-708.	0.5	3
20	Optimization of simultaneously propagating multiple fractures in hydraulic fracturing to achieve uniform growth using data-based model reduction. <i>Chemical Engineering Research and Design</i> , 2018, 136, 675-686.	5.6	42
21	Identification of spatially varying geological properties in a heterogeneous reservoir using EnKF and POD based parameterization. , 2018, , .		0
22	Model-based feedback control of oil production in oil-rim reservoirs under gas coning conditions. , 2018, , .		1
23	Optimal pumping schedule design to achieve a uniform proppant concentration level in hydraulic fracturing. <i>Computers and Chemical Engineering</i> , 2017, 101, 138-147.	3.8	39
24	Temporal clustering for order reduction of nonlinear parabolic PDE systems with time-dependent spatial domains: Application to a hydraulic fracturing process. <i>AIChE Journal</i> , 2017, 63, 3818-3831.	3.6	78