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Research interest: Number theory, Diphantine m-tuples, Simultaneus Pellian equations

Recent publications:

[1] Z. Franušić, I. Soldo, „*The problem of Diophantus for integers of Q(√-3)*" , **Rad HAZU, Matematičke znanosti**18 (2014), 15-25.
[2] Z. Franušić, „*Diophantine quadruples in the ring of integers of Q(3√2)*" , **Miskolc Math. Notes** 14 (2013), 893-903.
[3] Z. Franušić and D. Kreso, „*Non extensibility of the pair {1, 3} to a Diophantine quintuple in Z [√ -2]*", **J. Comb. Number Theory**, 3 (2011) , No. 3; 1-15.
[4] Z. Franušić, „*On the extension of the Diophantine pair* {1,3} *in* Z[√d]" , **Journal of Integer Sequences**, Vol. **13** (2010), Article 10.9.6
[5] Z. Franušić, „*A Diophantine problem in Z* [(1+ √d)/2]" , **Studia Scientiarum Mathematicarum Hungarica 46** (2009) , 1; 103-112.

Selected publications:

[1] Z. Franušić, „*Diophantine quadruples in Z* [√4k+3]" , **Ramanujan Journal. 17** (2008), 1; 77-88.
[2] Z. Franušić, „*On the extensibility of Diophantine triples* { k-1, k+1, 4k} *for Gaussian integers*" , **Glasnik matematički 43** (2008) , 2; 265-291.
[3] A. Dujella, Z. Franušić, „*On differences of squares in some quadratic fields*" , **Rocky Mountain J. Math 37** No.2 (2007), 429-454.